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Sowing the Oil: Brutalist Urbanism – Ciudad Guayana, Venezuela 1951-2012

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ABSTRACT

Political, cultural and economic networks between the United States and Latin America from 1940-1990 stimulated the construction of large scale projects that were a testing ground for new urban and developmental theories. As a consequence of FDR's "Good Neighbor Policy" to counter the Axis influence throughout Latin America, Town Planning Associates (Josep Lluis Sert and Paul Lester Weiner) were hired in Brazil in 1944 to design *Ciudad dos Motores*, a city dedicated to manufacturing tractors and airplanes. New principles of "Urban Design", the concept of an urban core, were refined by Sert and Weiner together with the young Venezuelan architects Moises Benacerraf, Carlos Guinand when they were hired in 1951 by the Orinoco Mining Company (US Steel) to design two new industrial towns Puerto Ordaz and Ciudad Piar.

In 1961 a larger scale of investment by *Corporacion Venezolana de Guayana*, modeled after the Tennesse Valley Authority, founded the new city of Ciudad Guayana and hired The Joint Center for Urban Studies of MIT and Harvard to work on a large scale regional plan that absorbed both Puerto Ordaz and the small colonial settlement of San Felix to form a new industrial city parallel to the Orinoco River. Like Buffalo, New York in its heyday, the new city of "Ciudad Guayana" on the Lower Orinoco valley of Venezuela combined good of river transportation with abundant hydroelectric power required for basic industries on the river and a "planned" new city for the workers and managers involved in the production of steel and aluminum products. This paper will show how three very different approaches to city building were applied in a short period of time: First, Sert's urban core/patio "Heart of the City", Second the Joint Center's "Brutalist Urbanism" for a new linear city twenty miles long and Third, "Participatory Planning" in the 1990's. Fifty years after its founding, Ciudad Guayana is a city of the approx.1,300,000 inhabitants still in search of a coherent identity.

Keywords: Brutalist Urbanism. Venezuela. Ciudad Guayana.

Sowing the Oil: Brutalist Urbanism--Ciudad Guayana, Venezuela 1951-2012

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"Today modern architects know that buildings cannot be conceived as isolated units, that they have to be incorporated into the vaster urban schemes. There are no frontiers between architecture and town planning, just as there are no frontiers between the city and the region. Correlation between them is necessary. Monuments should constitute the most powerful accents in these vast schemes."

Nine Points on Monumentality-J.L. Sert, F. Leger & S.Giedeon 1943

"Since 1950, South America – in particular Mexico, Brazil, and Venezuela – has made architectural news with talented variations of the design revolutions that had started in Europe thirty years earlier. The avant-garde architects of these countries did not content themselves with individual buildings. They revolutionized the academic heritage of their profession through a new concept of multiplicity. Whole new towns, such as Belo Horizonte, Ciudad Dos Motores, and Brasilia, vast housing projects, and new university cities, put emphasis on a complex harmony of urban design and individual requirement. This blending of architecture and planning is not matched anywhere on earth. It represents a new interpretation of the architect's mission which, by the quality of its results, is worth studying."

Carlos Raul Villanueva---- Moholy-Nagy, Sibyl, Stuttgart: Verlag Gerd Hatje, 1964.

Introduction

Brasilia the new capital of Brazil in 1960 and Chandigarh the new capital of the state of Punjab and in India in 1954 are the best known examples of architects and planners fulfilling the ambitions of a new political leadership that invested in the creation of a modern capital that represents the cultural renovation of the modern State. At the same time, another modern city was rising on the shores of the Orinoco of Venezuela not as a capital but as a new industrial city on the site of the crossing of the Caroni and Orinoco rivers. Ciudad Guayana in Venezuela is new city

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planned and built in stages from the 1952 to the 1990's. It is a case study for the history 20th century urbanism and the successive application of these theories on this large and spectacular site.

Santo Tome de Guayana was founded on the eastern bank of the Caroni River in the 17th Century along with a fort that controlled the flow of ships from the Orinoco and Caroni rivers built to discourage pirates from exploiting the gold mines in the Venezuelan Amazon. Santo Tome de Guayana changed its name to San Feliz in the 18th Century when mineral wealth became scarce and was substituted by agricultural exports of coffee and cacao.

San Feliz was a very small village for two hundred years until 1950 when the "Orinoco Mining Company" found large deposits of Iron Ore nearby and decided to establish two new towns: Puerto Ordaz at the site of the new steel mill to be built next to the Orinoco river, and Ciudad Piar at the site of extraction. Three young Venezuelans were hired to design these cities, architects, Carlos Guinand Baldo and Moises Benacerraf and civil engineer Tomas Carrillo-Batalla.

1: Puerto Caroni, the Orinoco Mining Company and Town Planning Associates: From a Company Town to an Integrated City, 1951-1961

On December 7, 1950 Town Planning Associates (Wiener and Sert) were invited to participate in two new towns as consultants to Carlios Guinand Baldo, Moises Benacerraf, and Francisco Carrillo Batalla (two Venezuelan architects and one civil engineer) who were commissioned by the Orinoco Mining Company (OMC).The two new towns: would begin the "sowing of the oil" policies of the Venezuelan goverment in collaboration with American Corporations. Guinand and Benacerraf prepared all the documentary material and started to negotiate their collaboration on these projects with Town Planning Associates (TPA). When TPA sent the first "pilot plan" for Puerto Ordaz to their Venezuelan partners, Moises Bennacerraf and Carlos Guinand Baldo criticised them for planning two civic centers as contrary to the idea of an integrated city and also the proposed patio housing for a floor to ceiling height of only 2.4 meters, an exterior corridor for access to the apartments and the lack of exterior stairwells, about the fact that the duplex apartments were proposed. Faced with these criticisms TPA modified their proposal and offered a new plans. This "pilot plan" took three years to develop, beginning in 1951.

Puerto Ordaz was planned following the precedent of Ciudad Dos Motores with the combination of patio housing medium and low rise and the focus on a central civic space that was pedestrian. This approach was in line with Sert's argument of the "heart of the city" presented to the 7th and 8th CIAM congresses, and it was also a reaction against planning that lost sight of their essential aims

to satisfy people's needs. For Sert the city was not only a matter of shape, and architecture could not be divorced from its urban roots. Paul Lester Wiener writes in 1952:

"In the last years a greater awareness of the human factors, as against the predominant physicalfunctional ones, is to be noted. The investigation of the "Core of the Cities" is testimony of the search for broader cultural interpretations, The presente preoccupation to interelate the free arts within the "Core of the Cities" raises CIAM's work to the moral and cultural responsibility which the new era demands." (The Heart of the City p. 86)

2:Town Planning Associates

In 1938, Paul Lester Wiener was commissioned by the governments of Ecuador and Brazil to organize and design interiors and exhibits for these countries' pavilions at the New York World's Fair. The war years found him working with the U.S. Office of Production and Research Development as well as in his own company, Ratio Structures, Inc., to develop prefabricated and demountable housing, suitable for post war housing construction and retail marketing. Town Planning Associates was originally founded by Paul Lester Weiner who was married at the time to the Alma Morgenthau the sister Henry Morgenthau, the secretary of the treasury in the FDR administration. Wiener was responsible for the American Pavilion at the Paris Exhibition of 1937 and probably met Jose Luis Sert and Luis Lacasa while they were supervising the construction of the radical Spanish Pavilion. The architecture of the Pavilion for the Republican government of Spain influenced Carlos Raul Villanueva who was in Paris at this time working on the Venezuelan Pavilion with Luis Malausena. In 1939 while he was assisting Costa and Neimever with the interiors of the Brazilian Pavilion of the New York Worlds' Fair. Jose Luis Sert arrived exiled in New York and by 1940 had joined Paul Lester Wiener as a partner of Town Planning Associates. In 1942 when at the request of the Secretary of State, Cordell Hull, they embarked on a lecture tour in South America acting as ambassadors for FDR's "Good Will Policy" and discussing Designing-Planning for industry with lectures such as: Public works for a peaceful growth, Modern theories to plan at territorial scale, New technologies for South American building industry, New materials, Social services (hospitals, schools).

The assumptions of the Athens Congress to a nascent idea of "Urban Design" with an emphasis on the creation of a pedestrian city center and opposing the car dominated city of Le Corbusier's earlier CIAM.– Sert and Weiner's's experience in Latin American was crucial. They were able to implement some of these ideas against the actual conditions of Latin American cities, a process of contextualization which purged them of their most dogmatic aspects. For Sert and Wiener the city is the result of a collection of neighborhood units surrounding a civic center: two urban devices intended to give a "human scale" to the city. Jose Luis Sert writes in 1952:

"For in truth the most accurate definition of the urbs and the polis is very like the comic definition of a cannon. You take a hole,wrap some steel wire tightly around it, and that's your cannon. So the urbs or the polis starts by being an empty space, the fórum, the agora, and all the rest are just a means of fixing that empty space, of limiting its outlines."

TPA's first proposal for the *Cidade dos Motores* was for a city for 25,000 people conceived as an industrial community to house workers and supervisors of a huge wartime airplane and truck factory. The pilot plan was completed in 1949 and was exhibited at the Museum of Modern Art. The city was divided into functional zones linked by a hierarchical system of roads. The building pattern was totally independent of streets and realized with a series of a high density housing estates. Empty space took the form of a continuous park, was the dominant landscape of the town. Although *Cidade dos Motores* was not built, TPA continued to work on urban projects throughout Latin America for next ten years.

3: Santo Tomé de Guayana and the Joint Center: Economic Development and Urban Planning at a Regional Scale, 1961-1970

- City as growth pole
- Planning a City at a distance.
- Isolated Urban Functions along a Linear City: Brutalist Urbanism

On Sunday July 2, 1961, the president of the republic of Venezuela Romulo Betancourt signed the foundational act for the new city of Santo Tome de Guayana along with the Vice-President of the Congress, The president of the Supreme Court, the commissioner of the Corporacion Venezolana de Guayana (CVG), the Governor of the State of Bolivar as the Archbishop of Ciudad Bolivar Juan Jose Bernal blessed the foundation stone of the new city. This act formalized the intentions of the newly elected democratic government to continue the efforts of industrialization that had been started in the 1950's and the desire to create a new city as a growth pole that would diversify Venezuela's economy with the establishment of modern factories for the production of raw Steel, and Aluminum, as well as finished goods such as I-Beams, re-bars, and extruded Aluminum sections. In 1969 the first stage of the Guri dam and hydroelectric plant on the Caroni River was completed and this provided abundant electricity for these industries to thrive. The Corporacion Venezolana de Guayana (modeled after the Tennesse Valley Authority) is a Federal Agency that controls all the investment and management of all the new state owned industries as well as in charge of overseeing the planning of the new city. CVG hired Venezuelan architects and planners such as Juan Andres Vegas and worked for five years with The Joint Center of MIT and Harvard directed at the time by Daniel P. Moynihan as advisors to Venezuela's Guayana Development Corporation (CVG) for all phases of city and regional development. Lloyd Rodwin, the Chairman of the Faculty Committee of the Joint Center for Urban Studies and the director of the Guayana project, called this "the largest new city development program in Latin America—and perhaps the world." In Rodwin's later assessment, the joint effort along the Orinoco proved successful:

"One of the general benefits that may emerge from the Ciudad Guayana project is the demonstration that the political leaders and builders of cities can profit from the formal enlistment of the skills and resources of knowledge available in universities...Perhaps the outstanding lesson

of the Veneauelan ezperience will be a demonstration of the value of creating the appropriate mechanisms with which to asses and link the growth potentials of the city and region with the national goals for development."(Planning Urban Growth and Regional Development, P.26)

In 1962 Lisa Peattie was appointed "Project Anthropologist" for the Ciudad Guayana venture. She, her husband and her children lived for 2-1/2 years in an earth-walled house in the shantytown of Barrio La Laja. She wrote two books critical of her experience in the Joint Center's planning of Ciudad Guayana and comments:

"There has always been a Utopian strain in the urban design profession...The planners of Ciudad guayana though of themselves as paractical persons, anything but Utopian, and they would have energetically disavoid the suggestion that they might be environmental determinists. But the evidence is that the planning enterprise has relied on comprehensive planning to humanize thje projects of economic growth. The city planners called on urban design to create a humane world around projects and to generate a sense of community in a setting of economic competition and class conflict." (Planning: Rethinking Ciudad Guayana, Peattie P.39)

4: The Corporation Venezolana de Guayana: Industrial Expansion and Urban Implementation and Architecture, 1970-1986

- Jesús Tenreiro's CVG Building as a Foundational Symbol of the New City
- Architecture for the Basic Industries, Services, sports facilities and cultural programs for the Workers in Sidor, Venalum, Interalumina and Carbonorca

To understand the magnitude of this Project we can see that The Caroni District in 1950 had a total of 5,358 inhabitants, and in 2001 had 646,541 inhabitants, in 2007 had 777,283 inhabitants. The four leaders of the CVG during this period of immense growth were: Rafael Alfonso Ravard, Argenis Gamboa, Andrés Sucre y Leopoldo Sucre Figarella.It is important to look at Ciudad Guyana as the fulfillment of the idea of "sowing the oil wealth" by establishing a cheap source of hydroelectric power for the entire nation as well as the creation of new Steel and Aluminum industries that would diversify the exports of this oil producing nation. In 1974 with the approval of Plan IV for Sidor (the steel mill) Venezuela went from producing 47,000 tons of steel in 1960 to close to 2,000,000 tons in 1980. By 2007 Sidor was producing 4,300,000 tons of steel. By 2012 this production fell to less than 2,000,000 and is still in decline due to serious disputes with the unions.Willo von Molke, the chief urban designer for the Joint Center writes in 1969:

"A Linear city with a series of nodes connected by a central transportation spine would be the form that would best fulfill the goals of efficient and memorable physical development. Only a linear city could tie together the existing developments, scattered over a distance of seventeen miles, and thus help to overcome the site's major physical problems---the extreme dispersion of existing facilities...Finally, it would increase visual unity and provide continuity of experiences within the city. " (Rodwin, op. Cit P. 135-136)

Von Molke's memorable Brutalist urban images of the city centered on the Avenida Guayana and Alta Vista--- the core of the new city that never came to be.Although Ciudad Guayana was meant to become the physical embodiment of the ideas of progress and modernity, 75% of the population still live in San Félix, whereas a similar percentage of jobs are in Puerto

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Ordaz, causing great transportation inefficiencies—long commutes, and severe bottlenecks over the Caroní River bridge. San Félix lacks basic amenities: many squatters go without paved roads, drainage, sewerage, water, and schools. Puerto Ordaz, on the other hand, despite its housing of more enfranchised classes, is not pedestrian friendly, and lacks articulation and plazas, parks, and green areas. There is conspicuous lack of human scale, and the visual structure offered by the planners was not realized due to a decision by the CVG to abandon the contruction of the lots adjacent to the Avenida Guayana to private developers who reproduced the model of isolated "propiedad horizontal" residental condos without repecting Von Molke's urban design guidelines.

Ciudad Guayana continues to be an ideological construction---a city that exists in the mind of planners and government officials, but that has failed to establish a coherent identity for its inhabitants. The identity of Ciudad Guyana is still tenuous and citizens and visitors continue to refer to the distinct settlements of Puerto Ordaz and San Felix. These two towns, on either side of the Orinoco river. have developed further apart from each other—in terms of their level of urban services and amenities—as a result of the design and implementation of the Ciudad Guayana's planning. Despite the Joint Center's planners idealistic intentions to diminish inequalities in the new planned city, the planning decision taken caused this economic and spatial polarization through their allocation of land uses and their failure to understand and engage the creation of the city as a political process. In addition, the CVG played a major role at perpetuating and exacerbating the dualism between Puerto Ordaz and San Félix by the differential way in which it allocated investments for urban services.

Another significant spatial problem in the planning Ciudad Guayana that cannot be ignored is the 40 kilometers distance from San Feliz along the Caroni river in the East to the West paralell to the Orinoco river where the major state-owned Industries are located. This resulted in extensive urban sprawl and the city continues to expand with low densities towards the west and the south. The western extension poses severe problems of pollution, because this zone is where most of the heavy, polluting industry is located. The expansion to the south invades areas of protection for the Caroní river basin, undermining the source of water for the city, and causing other environmental problems. Furthermore, the low densities also have a negative incidence in the costs of urban service provision, and the efficiency of the public transportation system.

5: EDELCA, New Urban Landscape Associated with Hydroelectrically Development, 1986-1999

- The City Ring, A New Road Acompanning Macagua Dam
- Environmental Plan Associated With the Construction Of Macagua II
- Humanizing the Industry, Architecture and Landscape for the people
- Development of Parque la Llovizna

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The most recent significant spatial transformation of Ciudad Guayana resulted from the huge urban renewal plan that was built at the margins of the Caroní River between the two Macagua Dams. The plan envisions an overall transformation along the edge of the river, contemplating among other aspects, some full-spa tourist developments on a grand scale and at the same time the construction of a new ring road that unites San Feliz and Puerto Ordaz to the south of the existing bridge. Also the integration of the Parque La Llovizna with some recreational and touristic use of the shores of the Caroni river. The idea of incorporating the areas at the margins of the Caroní, which traverse all the southeast border of Puerto Ordaz and the west of San Félix, to the dynamics of Ciudad Guayana is very desirable. There are countless examples of cities around the world that have made waterfront developments one of their greatest assets. Perhaps one of the greatest flaws in the initial planning of Ciudad Guayana was to neglect the potential assets that the riverfronts afforded, and around which the city could have been planned, rather than simply bridging the Caroní and turning its back on them.

With this new urban and hydrolic infrastruture the city will achieve a proper mixture of functions, including residential and particularly affordable housing. The access to the coast should remain public not only for strategic purposes, but also for the population at large to have access to recreational opportunities in varied pathways, parks, and beaches, all designed with sustainability in mind. This large scale urban intervention wisely integrates the infra-structure of the hydroelectric dam with a new avenue that has the potential to create a true integration of the poor city of San Feliz with the planned city of Puerto Ordaz and finally give birth to the unrealized city of Ciudad Guyana that not only serves the large state industries but begins to make a place for its 1,300,000 citizens integrated to the extraordinary landscape that surrounds it.

6: The Municipality of Caroní, The POU and the PEDUL: Plan de Ordenamiento Urbanistico and the Plan Especial de Desarrollo Urbano Local, 1988-2011

- The Law of Decentralization, Decision-making to the States and Municipalities
- The Recognition of San Felix as the Political Center
- Changes in the Form of the City as a result of the Application of the New Plans

After the first popular elections of 1989, the municipal council of Caroní (the amalgamation of San Félix with Puerto Ordaz) acquired autonomous status—up to then [End Page 30] it had been subordinate to the CVG—and began its independent participation in the definition of urban development in Ciudad Guayana. The main authority of the city was therefore the mayor, Clemente Scotto at the time, who came to be the main leader who favored decentralization and promoted participatory planning at the local level.

During his six-year mandate (1989-1995), Scotto emphasized four management goals for the municipality: to widen and deepen democracy; to enhance the quality of life of citizens; to have an honest and transparent government; and to modernize the institution. One important way in which these policies were concretized was the creation of parroquias (political divisions of the social and physical structure) in Ciudad Guayana. The criteria followed for the definition of 10 parroquias respected history, social processes, natural and built barriers, number of inhabitants, and more importantly, the will of the communities involved. Within the municipality were created the Unit of Community Development and the Unit of Urban Regularization, which consisted of one team—composed of professionals, technicians, and community representatives—per parroquia, some of which had internal neighborhood modules.

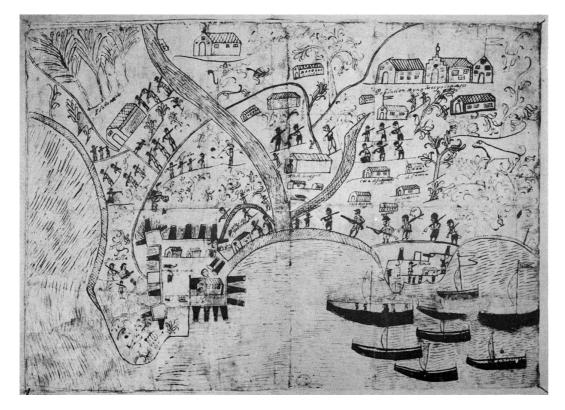
Scotto promoted an unprecedented empowerment of the local government, and opened the municipal governance model to significant public participation. These plans were coordinated by the Unit of Municipal Planning, which had the general goal of "achieving a better quality of life for the inhabitants of the Caroní municipality, through service conferment and the promotion of massive participatory and democratic processes, which enable the formation of a citizen responsible of searching for the satisfaction of her needs". He also helped to construct a better relationship between the CVG and the municipality. He started to slowly build up the institutional infrastructure within the municipality to support the incremental transfer of some planning and managerial responsibilities from the CVG to the local government. He also negotiated some appropriate partnership between the two instances of government for them to share resources and duties, aiming to increase decentralization without provoking either a traumatic change of power and representation, or a potential void of accountability. The empowerment of the local government was expressed in the construction of a new, bigger building for the municipality, and the urban revitalization of the surroundings, in particular, the central plaza of San Félix (Plaza Bolívar), the buildings around it, and the immediate scenic coastal area at the margins of the confluence of the Caroní and Orinoco rivers.

The preliminary version of the *Plan de Ordenamiento Urbano of Ciudad Guayana* was presented in 1995, after significant consultation with experts and the incipient civic society in the city. This new plan marks a radical departure from the planning ideas of the 1960s and 1970s, calling for a more democratic, participatory transformation of the city, and the promotion of a more inclusive, pluralistic society. Now, the city is in deep conflict as a failed state has appointed for the past fifteen years corrupt managers that have drained the resources for all the state owned industries and created conflicts and violence against the unions that represent the workers. Unemployment is at an all time high as is violent crime. The contemporary Ciudad Guayana represents both the failures of an Informal State that has caused bankrupcy to both the private and public investments

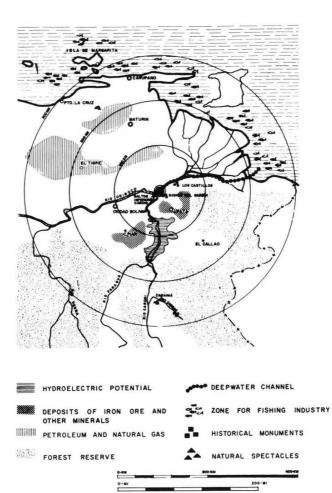
of the past fifty years and the potential for the a city that is not just the product of large state owned industries but develops an autonomous identity within its extraordinary natural setting.



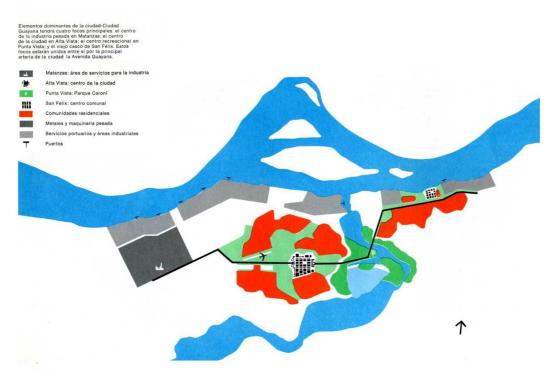
Jesús Tenreiro-Degwitz, Architect: Corporación Venezolana de Guayana, Ciudad Guayana, 1967–68.



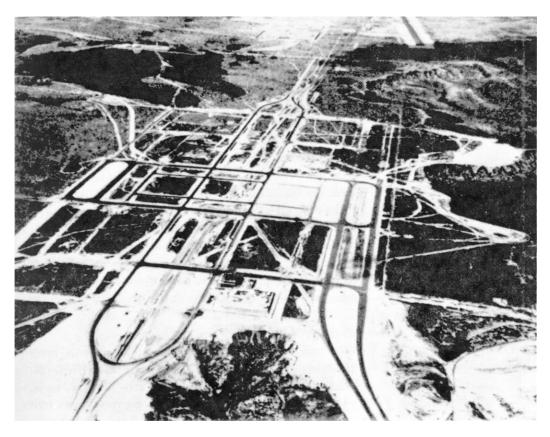
Santo Tome de Guayana (1637)



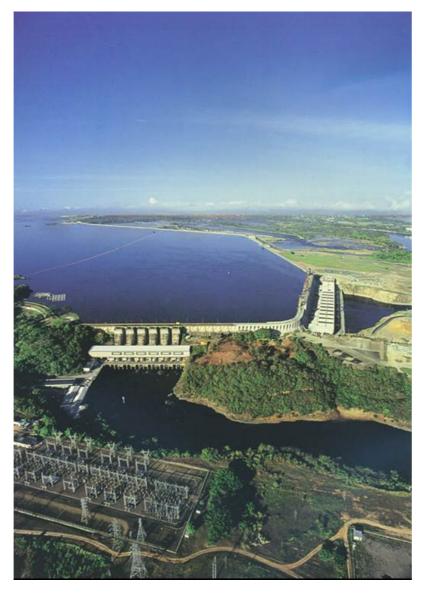
Resources of the eastern region of Venezuela



MIT-Harvard Joint Center Proposal for Ciudad Guayana, 1968



Aerial view of the Alta Vista center



Aerial view of the new Corina Dam and bridge.



Alcasa, Ciudad Guayana 1962

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