

(WED ENTERPRISES ()
INTER-OFFICE COMMUNICATION

P-1328-R-1

TO Those Concerned DATE September 21, 1978
FROM John Verity SUBJECT Energy Pavilion - Project
Description (III Level)

The attached Energy Pavilion Project Description (III Level) has been initiated to summarize the preliminary design of the project as of this date. The information contained in this document supersedes all previous data presented in past show scene descriptions. As significant modifications to the current design occurs, updates of the affected sections in this report will be initiated. The following items represent the major areas of change in the concept since the July 3, 1978 show scene description:

- The pavilion plan is now based on a scheme "E" configuration which has altered the pre-show area, VIP area, and the basic access to the pavilion.
- The number of projectors and required film footage has been modified slightly.
- The Theoretical Hourly Ride Capacity has been reduced to 3000 reflecting the 12 minute show cycle.
- The number of animated figures and show action equipment has been increased.
- The building square footage has increased to approximately 145,600.

Please direct your comments or questions to me at extension 224.

JV/br

*Goal:
Energy to the man!*

ENERGY PAVILION

PROJECT DESCRIPTION

Prepared by: WED Research & Planning



DATE ISSUED: 1/12/78

DATE REVISED: 3/10/78, 7/3/78, 9/21/78

SCOPE
LEVEL III

DISTRIBUTION

Ken Ball	Jack Terry
Dave Barron	Lou Tonarely
Bob Bergenty	Jim Thomas
Kent Bingham	George Windrum
Mel Black	Gary Younger
Bob Booth	John Zovich/Dick Fox
Randy Bright	
Ron Brown	
Ron Carman	
Eddie Carpenter/Gene Lemoine, WDW	
Jim Cashin	
Ed Chisholm	
Cliff Clark	
Claude Coats	
Lee Congiardo	
John DeCuir, Jr.	
John DeCuir, Sr.	
Glenn Durflinger	
Bob Evans	
Orlando Ferrante/ Charlie Peck	
Art Garbers	
Blaine Gibson/Bob Sewell	
Bob Gibeault, Studio	
Harper Goff	
John Hench	
Dave Holtz (2)	
Morrie Houser	
Don Iwerks, Studio	
Wayne Jackson	
Ken Kerr	
Bruce Laval, WDW	
Eustace Lycett, Studio	
Bill Moss/Neil Sellers, WDW	
Jim Poole	
Herb Ramsaier	
Mike Ratcliff/Bill Blumberg, WDW	
George Rester	
Wathel Rogers (2)	
Ralph Rosenthal	
Dave Schweninger/Eric Westin	
Marty Sklar	
Jack Martin Smith	
Frank Stanek	
Bill Sullivan/Dick Orr, WDW	

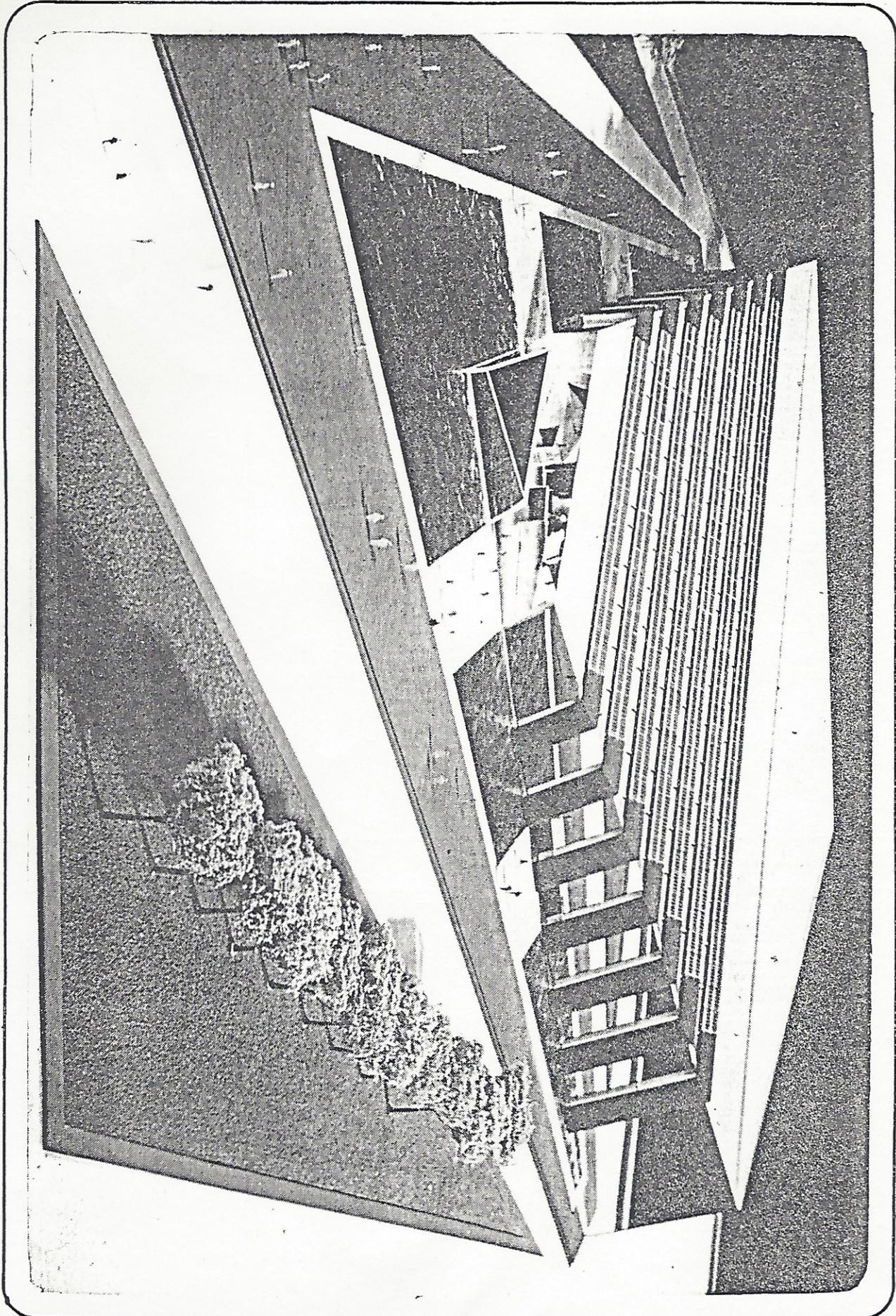


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SCOPE
LEVEL III

ENERGY PAVILLION



PROJECT STORYLINE

Guests entering the Energy Pavilion will first observe an entertaining and enlightening two part film presentation. In part one, the operating photovoltaic cells (located on the Pavilion's roof) will be highlighted and their amazing ability to convert solar rays into electricity will be explained. In part two of the pre-show, an energetic and stimulating film will give guests a greater understanding of the role energy plays in providing contemporary man with the "Good Life".

As the doors open into the main show, guests will board six Traveling Theaters. After a brief introduction, guests are challenged to participate in a great treasure hunt a search back through time for the many forms of energy stored and hidden by nature. Before departing on our journey, the curtains rise and expose a spectacular starry cosmos - a universe of energy. After a brief presentation on the origins of energy stored within the earth, the Traveling Theaters begin their journey back through time to the prehistoric era. Passing through the strange and foreboding Primeval Forest, Garden of Sunshine, and Turbulent Earth, guests experience the dynamic forces which produced much of the fossil fuels used today. Narrowly missing a curious dinosaur and tumultuous earthquake, the Traveling Theaters reassemble in an audience configuration.

Why?

The search and recovery of this hidden fossil energy is an enormous task. Within a cinerama film presentation, guests are given a bottom-up look at the search for fossil fuels, beginning with the initial formation of pockets of fossil fuel and climaxing with the actual drilling, digging, and removal of these fuels.

earth

As the film presents America's newest discovery of fossil fuels at Prudhoe Bay, Alaska, guests are invited to follow the flow of oil as it travels through the Alaska Pipeline over mountains and streams to the seaport of Valdez.

from its beginnings as twigs turned on a fire

Once the oil reaches Valdez, the almost overwhelming job of distributing the crude via gigantic tankers and super tankers begins. As guests observe this vast distribution system our narrator points out that it will take many new fossil fuel technologies to retrieve the harder to reach fuels caught in places like the Tar Sands of Alberta, Canada, and the shale of Green River, Colorado. As the presentation shifts from the new transitional energy technologies to the distant future technologies, guests are invited to board (via film) the X-0-1 Hovercraft for a tour of the many alternative energy developments which could occur in the Twenty-first Century. Guests observe a series of renewable energy technologies including Ocean Thermal Energy Conversion, Solar Collectors positioned in outer space, and the ultimate renewable resource, Atomic Fusion.

Also - energy is power!!

In a climactic finale, the Traveling Theaters begin to move through a "Time Corridor" back to the Twentieth Century (returning to the Pavilion's load/unload area). As the Traveling Theaters prepare to unload, our narrator reminds guests that it is Man's challenge to continue to develop alternative energy sources to meet the needs of the Good Life in the future.

*Even this is
this has been for
some time available on the
excellent Exxon TV Coverage!*



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SCOPE
LEVEL III

EPCOT ENERGY PAVILION

EPCOT's Energy Pavilion is intended to extend public understanding of the alternatives and choices in energy that must be faced, both short and long term. The story is presented in terms of 1. Man's energy needs, 2. Available resources, 3. Potentialities for the future.

The unique structure of the Pavilion begins the energy story. The WED Engineering staff is investigating utilizing a sloping roof of photovoltaic solar cells. As sunlight strikes the cells, solar energy would be converted directly to electricity, providing energy for a number of the Pavilion's functions.

In the Good Life multi-media pre-show, the vital connection between energy and the way of life is established. Still's and rapid sequence projections present a comfortable and active life which energy provides us today... focusing on the enormous amounts of fuel required to provide recreation, household comforts and industrial growth.

EPCOT

ENERGY PAVILION

Guests then enter Travel Theatre I featuring The Earliest Quests for Energy explaining how ancient man survived his own energy "crunches." Through music, narrative and film, guests travel to primitive lands where conversions to new fuel sources helped fashion better standards of living. The audience sees the aggressive utilization of natural gas in China, coal in Europe and oil on the Isle of Sarc. Guests also learn that the United States' own transition to fossil fuels occurred just 100 years ago.

To understand more about the nature and limitations of "fossil sunshine," the audience is then challenged to witness its formation in prehistoric times. The guests discover that their theatre seats have suddenly become "Traveling Theatre Cars"

separating from their rows and realigning, single file, to whisk the audience off on a ride-through adventure, The Principal Energetic Earth for the story of how fossil energies were formed and hidden from man's reach.

The Traveling Theatre cars cruise through "Showers of Sunshine Plankton",...owing off deposits nurtured for eons by the Sun and locked below the dark, primordial sea and through "The Tropical Primeval Forest," where solar energy was captured and stored in plants via photosynthesis and subsequent decaying began the formation of coal deposits.

*about
about
✓*

*not
Energy
7*

*The story
of energy!
The journey to air!*

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In The Good Life multi-media pre-show, the vital connection between energy and the way we live is established. Stills and rapid-sequence projections present the comfortable and active life which energy provides us today...focusing on the enormous amounts of fuel required to provide recreation, household comforts and industrial growth.

Guests then enter Traveling Theatre I featuring The Earliest Quests for Energy explaining how ancient Man survived his own energy "crunches." Through music, narrative and film, guests travel to primitive lands where conversions to new fuel sources helped fashion better standards of living. The audience sees the innovative utilization of natural gas in China, coal in Europe and oil on the Isle of Sante. Guests also learn that the United States' own transition to fossil fuels occurred just 100 years ago.

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future

*not from
Energy is
expensive
- a drain on our money -
we work it!*

?

*short
short!*
✓

The dinosaur, animals, man-eating
plant life which ⁻²⁻ billions of years later -
spits oil into the eye of mankind!

The journey continues through "The Primeval Garden of Sunshine," a lush Mesozoic era environment containing full-size Audio-Animatronics dinosaurs and other animal and plant life which contributed vital elements to the formation of fossil fuel reservoirs.

The next scene, "Our Turbulent Earth," relates events that have been called the "mixing of the great organic soup." Guests experience simulated eruptions, exploding geysers and earthquakes, which enfolded and compacted organic materials deep within the Earth. Two great dinosaurs fight to the death as their era wanes, and guests progress to the "Turbulent Sea." As the story of fossil fuels concludes, the finite deposits are washed over by the seas and hidden for centuries from Man.

The cars "escape" the flood to reassemble in the Traveling Theatre II for the show The Tools and Techniques of a Costly Quest. Dimensional set pieces and special effects enhance a docu-dramatic film tracing the difficult steps in fuel production. Guests travel with an Exxon crew to the North Sea, where a violent storm rages, as oil is extracted from the ocean floor. At Prudhoe Bay, the audience "feels" a bone-chilling blizzard as the oil is prepared for shipment through the Trans-Alaska Pipeline. In the Mid-East, guests are surrounded by a scirocco-- a hot cyclonic sand storm--that further impedes fuel recovery.

When the oil arrives in the United States from the various locales, the audience follows a shipment of it from port, to refinery, to consumer. Explorations for coal, tar sands, shale and natural gas are also included in the show. But coal and uranium are shown as the only fuels that could potentially carry us through the near future. Guests are left to conclude that a transition from the "Petroleum Age" is near.

The cars exit the second theatre to enter a speed/time tunnel: Transitions to the Future, a rapid journey through a transitional period before new, long-term energy technologies are developed. All around them, guests catch quick glimpses of coal, shale, tar sands, atomic fission and other transitional energy sources that could be used to bridge the gap between this energy age and the next.

Arriving at Traveling Theatre III, the guests will see the Dawn of the New Energy Age which utilizes dimensional sets, stereophonic sound and Circle-Vision 360 to simulate a variety of innovative technologies. Guests are "experimentally transformed" to microscopic size and conveyed through systems of solar, tidal, fusion, wind, OTEC (ocean thermal energy conversion) and geothermal energy. This adventure demonstrates that while all of these fuel resources offer clean and renewable energy, there are many challenges in harnessing it.

future

FUTURAMA!

The show climaxes with the "ultimate breakthrough" in energy technology: the detonation of hydrogen pellets in the heart of a laser-fusion reactor. The "psychedelic explosion" sends the cars "hurtling" from the theatre through another Time Tunnel, Transitions to Future Space.

As the guests move from the earth into outer space and on to the more distant future, they experience the power of energy released by super novas, quasars, "black holes," gravity and a myriad of other "cosmic forces" that push them deeper yet into space...where Man will take up the challenge of a new energy transition.

Arriving at Traveling Theatre IV, the cars reassemble for The Cosmic Age and Beyond. Domal projections and special effects simulate space farms, colonies, cities, refueling docks and power transmitters that could provide life-support systems for future generations.

The basic message in the finale is that wherever we go, mankind will continue one of our most essential and challenging priorities... the search for energy--fuel for the highly developed, complex society of today and tomorrow.

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Beware overlapping and duplication !!