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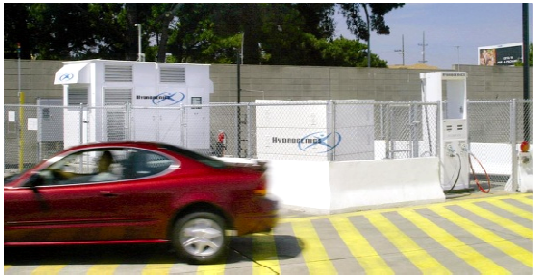
Advanced Hydrogen Solutions

California Energy Commission
Hydrogen Infrastructure Workshop – Scoring Criterial
July 10, 2012

Cute Barcelona

Hydrogenics Fueling Stations Experience in N. America

- Toronto ,Ontario (4)
- Vancouver, British Columbia
- Ford, Arizona
- APG, Arizona
- Richmond, California
- Torrance, California
- Diamond Bar, California
- Chula Vista, California
- Chino, California
- Oakland, California
- Rosemead, California
- Detroit, Michigan
- Minot, North Dakota
- Cal State LA, California
- Newport Beach, California
- Burbank, California
- Culver City, California



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130 kg/day

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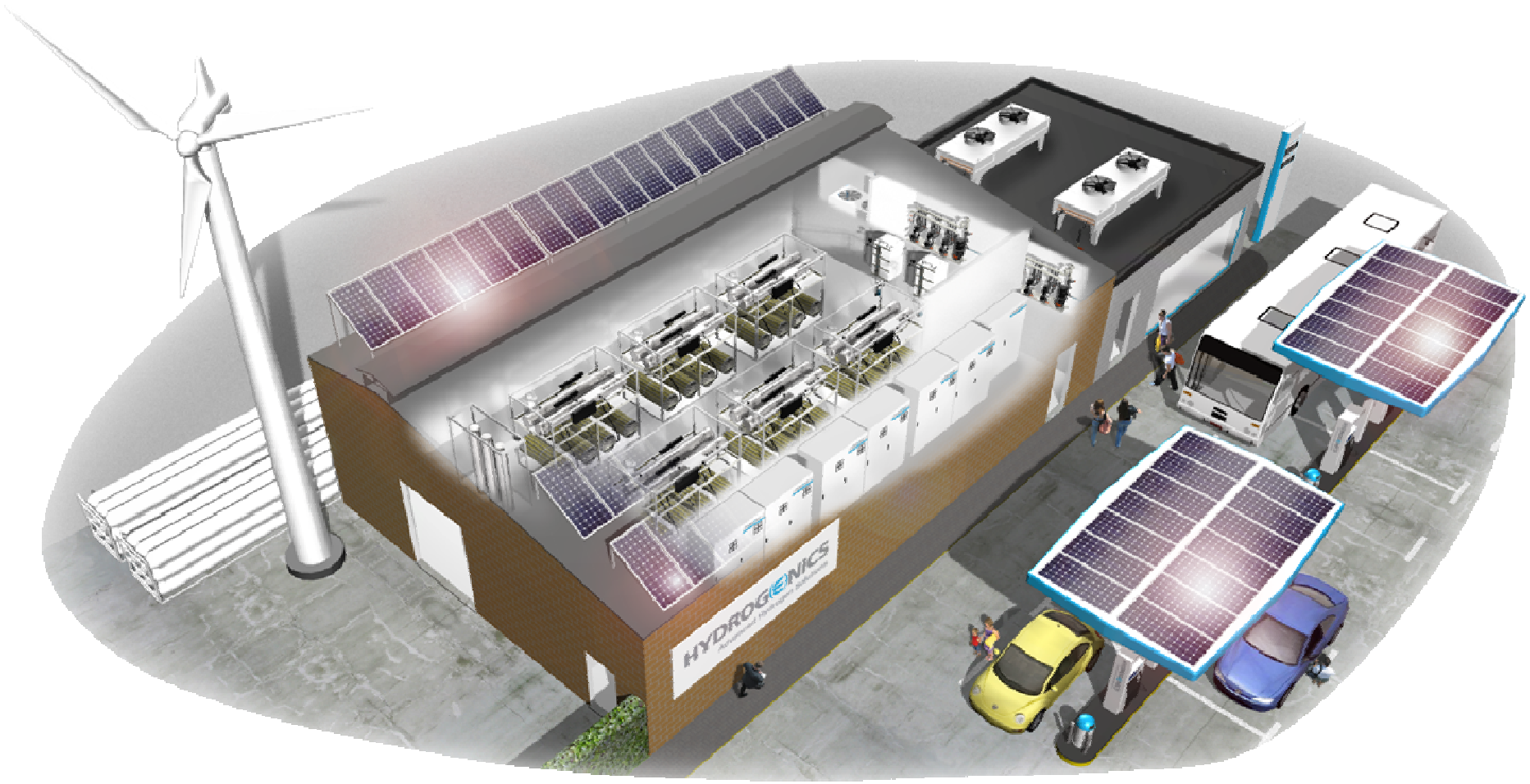
30 cars/day



22 buses/day
or 180 cars/day

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Building today Hydrogen Network: Elements to consider

- Meets OEM requirement; 700/350 bar; customer experience; location
- Hydrogen Refueling Now – Not forget the objective of the Hydrogen Economy of Distributed Energy threw Renewable (specifically solar, hydro and wind).
  - Reward the greenest hydrogen
  - Allocate funding for green stations
- Maintain in-state hydrogen production
- Efficient operation where little hydrogen is vented – good turndown ratio.
- Connector or Destination stations with higher throughput (bus or forklift program) on non-expected travel days (weekends) should score higher
- Reward existing stations that require a time/cost efficient upgrade with higher scoring or removing the mandatory requirements (such as throughput)
- Allow for higher cost share for more expensive green/on-site generation station
- Rewards teams with proven experience in operation; maintenance; design ect.

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Proposal Requirements

- Previous PON was comprehensive
- Allow OEM to blindly support locations
- Limit funds available to one technology/developer to a percentage of the total PON (30%, 50%, 60%?)
- Give Respondents at least 8 weeks to prepare.

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