WCEC Affiliates Forum

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Be Supplied by 100% Renewable Energy
Formats & Footprint

Quick Stats:
- 71 Banners
- >1 Billion SF
- >200 Million Cust/Wk
- >2 Million Associates
- >10,000 Stores/Clubs
- 27 Countries
Formats & Footprint

- DOAS
- 3-5 RTUs
- 10-20 RTUs
- DOAS

3-5 RTUs
Walmart’s Aspirational Sustainability Goals

To be supplied 100% by renewable energy

To create zero waste

To sell products that sustain our resources and environment
Background Goal

2005 GHG Goal

‘Reduce the greenhouse gases at our existing store, club and DC base around the world by 20% over the next 7 years’

Design and build a new prototype that is 20% more efficient and produces 25% fewer greenhouse gases that our 2005 prototype
On April 15, 2013 we announced two new corporate energy goals for 2020.

Walmart is on the path to being supplied by 100% renewable energy.

We will take a two tiered approach by both increasing renewable energy usage and increasing energy efficiency with the following commitments:

**Commitment 1: scale renewables**

**Public Goal**

Drive the production or procurement of 7 billion kWh of renewable energy globally by December 31, 2020—an increase of over 600% versus 2010.

**Commitment 2: accelerate efficiency**

**Public Goal**

By December 31, 2020, reduce the kwh/sq.ft. energy intensity required to power our buildings around the world by 20% versus 2010.
Develop "prototypical" systems design to achieve incremental target energy savings for each HE-version.
Two Conventional Units:
- 2 fans @ 30 HP
- 2 pumps @ 3 HP
- 10-ft high
- 25,000 lbs
- 900 Gal sump
- 20% Redundancy, 2-fan failure

Two Wet/Dry Units:
- 16 fans @ 1 HP
- 4 pumps @ ¾ HP
- 6-ft high
- 15,000 lbs
- 180 gal sump
- 98% Redundancy, 2-fan failure
DEVELOPMENT TIMELINE

- **Energy Efficiency Projects**: ~4500 Projects
- **2020 Goal**: LED NHM
- **2013**
  - PROTO LED NHM
  - PROTO Removed CO2
  - PROTO LED Sales Floor
- **2014**
  - PROTO MT Doors
  - Supercenter Reinvention
- **2015**
  - OGP / Delivery
  - NZE Supercenter?
- **2016**
  - Micro Grid
  - Community CHP/WTE
  - Climate Change

**Projects/yr**
- ~8,000 Projects/7 yrs
- ~25,000 Projects/8 yrs
Thank You

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