



**ABEEólica**

Associação Brasileira  
de Energia Eólica

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**GWEC IRENA Workshop  
Copenhagen-Denmark.**

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Vice-President**

**April 13th 2012**

# Wind Power in Brazil

- **Strong potential – up to 400 GW.**
- **Fast implementation of projects, with reduced environmental impact.**
- **Complementary to hydro power plants.**

# Current Situation

- **Annual demand growth forecast of 3,200 MW between 2011 and 2020 (Source: Brazilian Energy Research Company (EPE)).**
- **Government has been assigning its priority for the inclusion of renewable energy sources.**
- **Wind has increased its share on the Country's power matrix from 0,03% in 2005 ( 27 MW ) to 1,3% in 2011 ( 1,6 GW ).**
- **In 2020 it will be around 12,5% ( 20 GW )**

# Scenario in 2008

- **Hydro power plants were responsible for 85% of the power generation.**
- **New hydro power plants being built in the Amazon region – run of the river technology.**
- **Small reservoirs demand complementary power sources.**

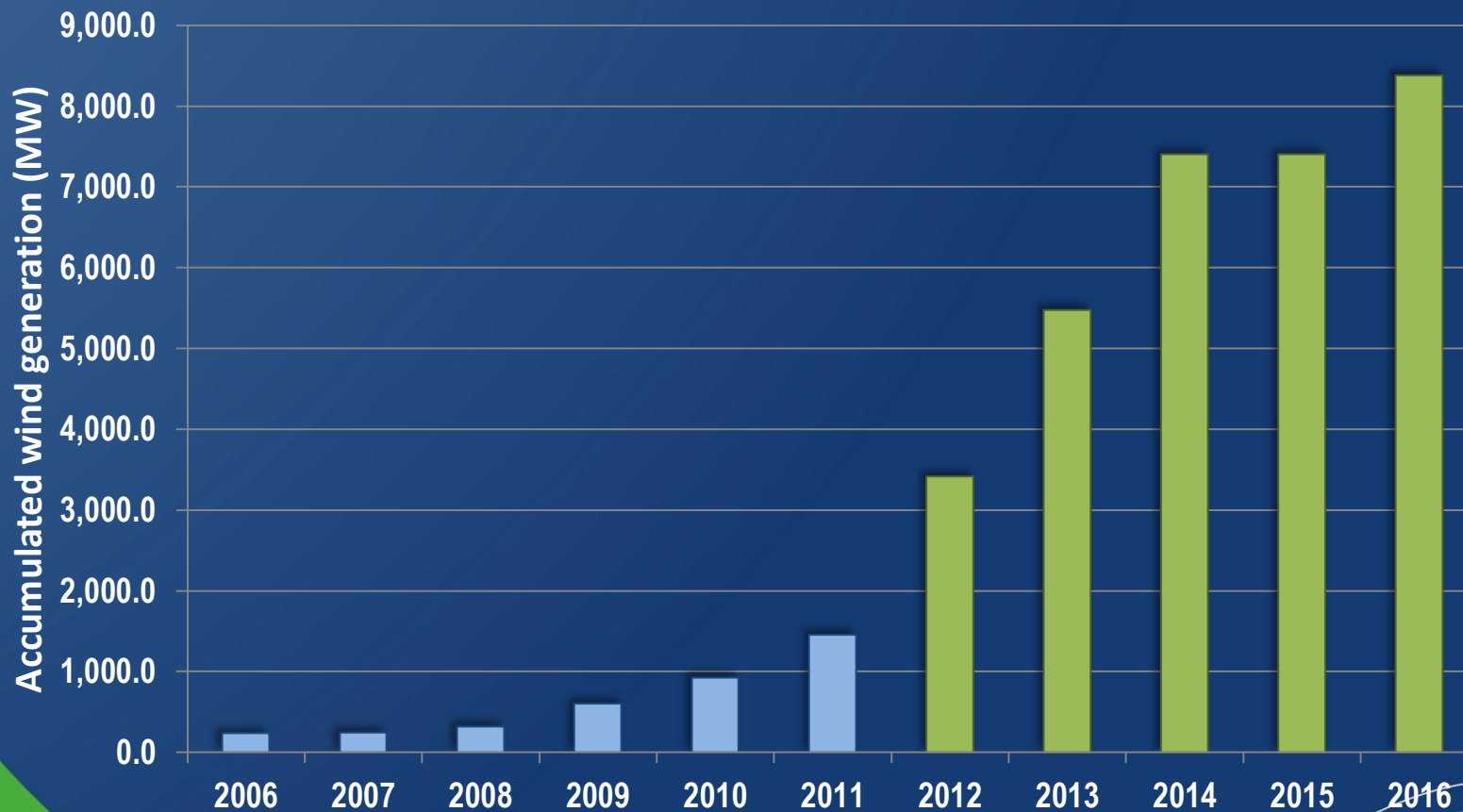




# Government Policies for Wind

- **Exclusive auctions – substantial buying volume**
- **Nationalization Index – lower in the beginning**
- **20 year PPAs – long term commitment**
- **BNDES dedicated credit lines**

# Launched PPAs



Source: ANEEL, CCEE

# Launched PPAs

- 2004 – 1,428 MW from Proinfa
- 2009 – 1,805 MW on 1<sup>st</sup> Wind Auction
- 2010 – 2,047 MW on 2<sup>nd</sup> and 3<sup>rd</sup> Wind Auctions
- 2011 – 2,905 MW on 4<sup>th</sup> , 5<sup>th</sup> and 6<sup>th</sup> Wind Auctions
- 2011 – 485 MW negotiated on Spot Market
- Total up to date – 8,670 MW (80% under construction)



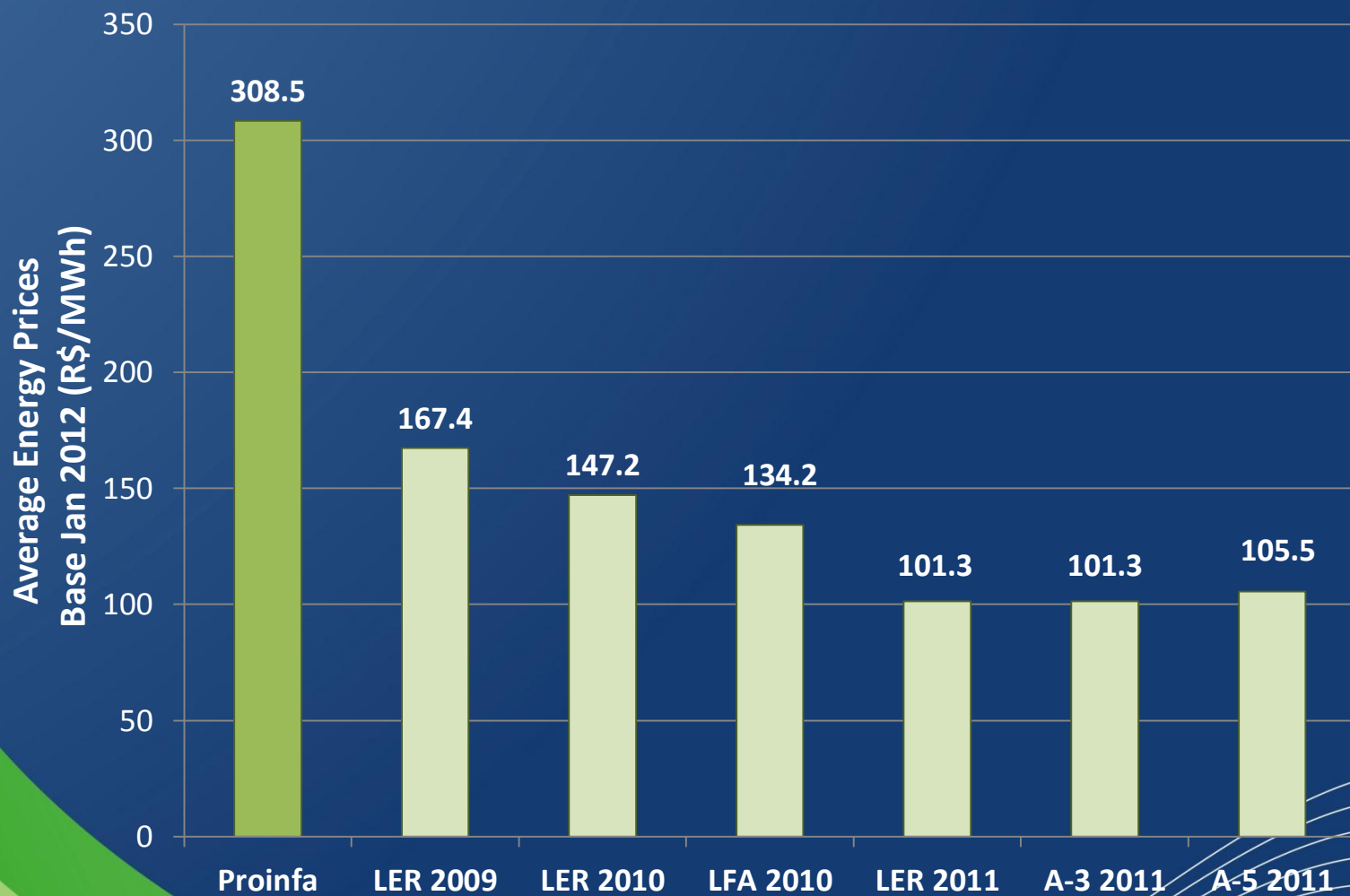
# Capacity Factors' Behavior



Source: CCEE



# Average Wind Tariffs



Source: BNDES

# Auctions 2009, 2010 e 2011

**2009**

**LER**

Registered  
**13 GW**

Hired  
753 MW  
firm

= **1.805 MW**  
installed  
capacity

**2010**

**LFA e LER**

Registered  
**11 GW**

Hired  
899 MW  
firm

= **2.047 MW**  
installed  
capacity

**2011**

**A-3 e LER**

Registered  
**10,5 GW**

Hired  
832 MW  
firm

= **1.929 MW**  
installed  
capacity

**2011**

**A-5**

Registered  
**7,5 GW**

Hired  
487,5 MW  
firm

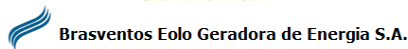
= **976 MW**  
installed  
capacity

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**Thank you !**

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