RICHARD G. LUGAR CENTER FOR RENEWABLE ENERGY SPRING FORUM
ENERGY OPPORTUNITIES FOR ACADEMIA AND JOB CREATION IN CENTRAL INDIANA

May 13, 2015
IPL SERVES 480,000 CUSTOMERS IN INDIANAPOLIS AND SURROUNDING AREAS
IPL IS PART OF THE AES GLOBAL PORTFOLIO OF COMPANIES
TREND #1: ENVIRONMENTAL LEGISLATION AND REGULATION...

- Renewable Portfolio Standards (RPS)
- Production Tax Credit (PTC) for renewables
- Light Duty Vehicle CAFE Standards (54.4 mpg)
- New Taxes/Regulations on Drilling & Fracking
- GHG New Source Performance Standards (Existing Plants)
- GHG New Source Performance Standards (New Plants)
- Revised NAAQS
- Steam Electric Effluent Guidelines
- 316(b) Cooling Water Intake Requirements
- MATS
- CCR
- NPDES/Wastewater

Years:
- 2012
- 2015
- 2020
- 2025
...LEADING TO A TRANSFORMATION OF THE U.S. GENERATION MIX

2013
Total Generation: 3,889 TWh
- Coal: 40.45%
- Hydro: 15.74%
- Natural Gas: 25.33%
- Nuclear: 6.68%
- Renewable: 6.25%

2035
Total Generation: 5,261 TWh
- Coal: 45.24%
- Hydro: 14.71%
- Natural Gas: 19.72%
- Nuclear: 4.59%
- Renewable: 20.29%
TREND #2: INFRASTRUCTURE NEEDED FOR MORE DYNAMIC GRID
TREND #4: PREPARING FOR A MAJOR WORKFORCE TRANSITION

Potential Employee Losses Through 2020
% Potential Attrition and Retirements

Source: Center for Energy Workforce Development 2011 Survey; excludes nuclear.
How IPL Has Successfully Partnered with Academia

**Electric Vehicle Transportation**
“The Effects of Electric Vehicles in the City of Indianapolis”

**Crossroads Smart Grid Training**
Developing smart grid workforce training programs

**Commercial & Industrial Energy Efficiency**
Industrial assessment center that provides training to students
TOMORROW’S ENERGY JOBS REQUIRE A MIX OF SKILLSETS

- Strong analytical skills
- Strong oral and written communications
- Inquisitive nature
- Teamwork
- Collaboration
- Leadership
- Project management

- Financial analysis/economic modeling
- Computer skills
- Communication technologies
- Cyber security
- Electricity systems
- Data analytics
INTERNSHIPS ARE A WIN-WIN FOR IPL AND STUDENTS
IPL HAS PARTNERED TO ENHANCE OUR CRAFT TRAINING PROGRAMS
OUR INDUSTRY OFFERS MANY EXCITING CAREER PATHS
THANK YOU