

DOE OFFICE OF INDIAN ENERGY

National STEM and Workforce Initiative

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Christopher Deschene

Director, Office of Indian Energy



U.S. DEPARTMENT OF
ENERGY

Office of
Indian Energy

OUR MISSION

To maximize the development and deployment of energy solutions for the benefit of American Indians and Alaska Natives

OUR VISION

To be the premier federal office for providing tribal communities and Alaska Native villages with the knowledge, skills and resources needed to implement successful strategic energy solutions



Rosebud Sioux's (SD) Little Soldier Turbine
(First 750 kW Turbine on Tribal Lands in contiguous U.S.)

Strengthening Tribal Communities, Sustaining Future Generations



Authorized under Title V of the Energy Policy Act (EPAAct) to provide, direct, foster, coordinate, and implement energy planning, education, management, conservation, and delivery programs of the Department that—

1. promote Indian tribal energy development, efficiency, and use;
2. reduce or stabilize energy costs;
3. enhance and strengthen Indian tribal energy and economic infrastructure relating to natural resource development and electrification; and
4. bring electrical power and service to Indian land and the homes of tribal members located on Indian lands or acquired, constructed, or improved (in whole or in part) with Federal funds.

Reality of 567 Federally Recognized Tribes

Staggering gaps between Indian Country and the rest of the U.S.



American Indian and Alaska Native households in large tribal areas are more than **3 times** as likely to live in **overcrowded housing** and more than **11 times** as likely to live in housing without adequate plumbing



Poverty and unemployment rates among American Indian and Alaska Natives living in tribal areas in 2006–2010 were at least **twice as high** as those among non-Indians nationally



Ready access to electricity is still considered a luxury in many tribal communities ... as many as **15,000 Navajo homes** — about **30%** — still lack electricity



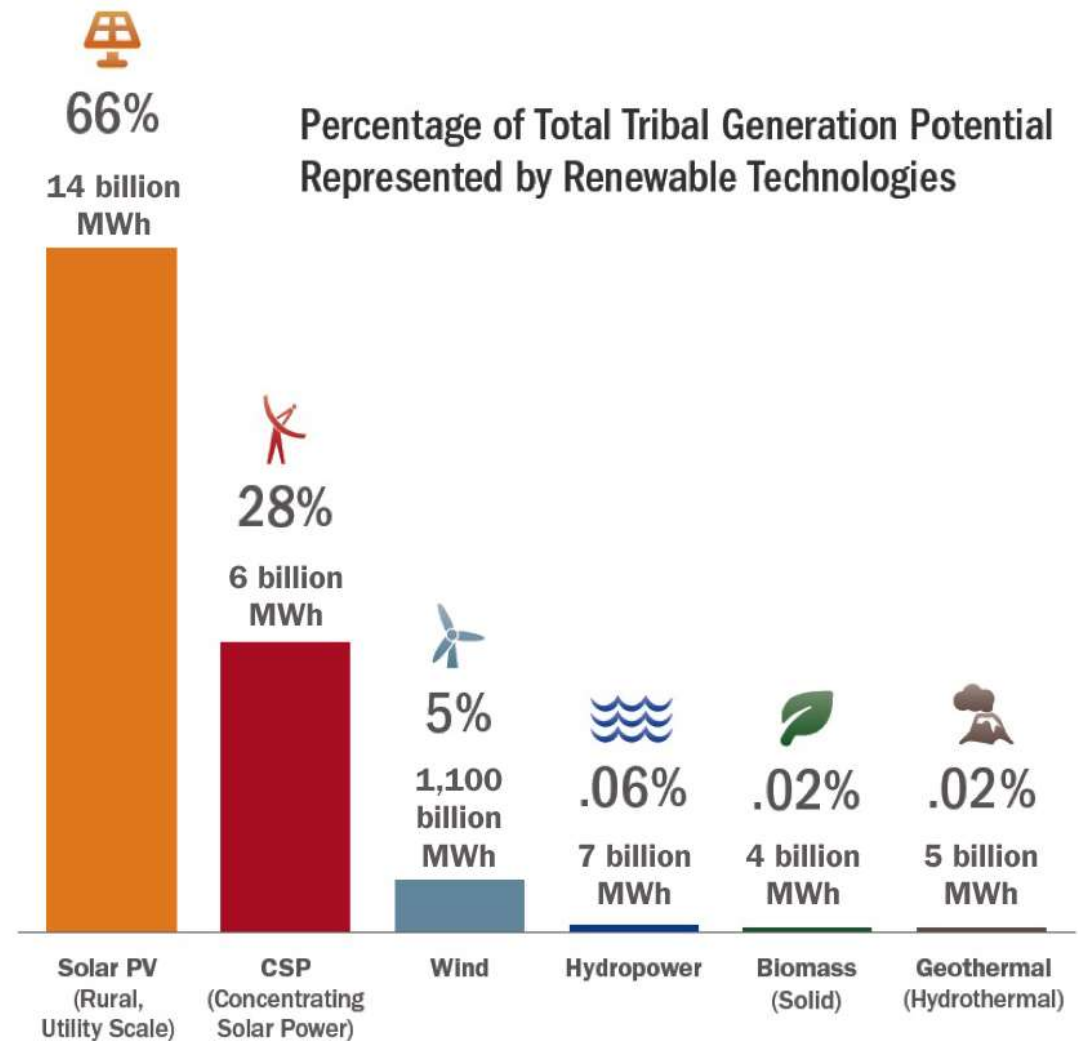
More than **175 remote Alaska village populations** rely almost exclusively on diesel fuel for electricity generation and heating oil for heat. In some rural Alaska communities, electricity costs exceed **\$1.00/kilowatt-hour (kWh)**—more than **8 times the national average of \$0.12/kWh**



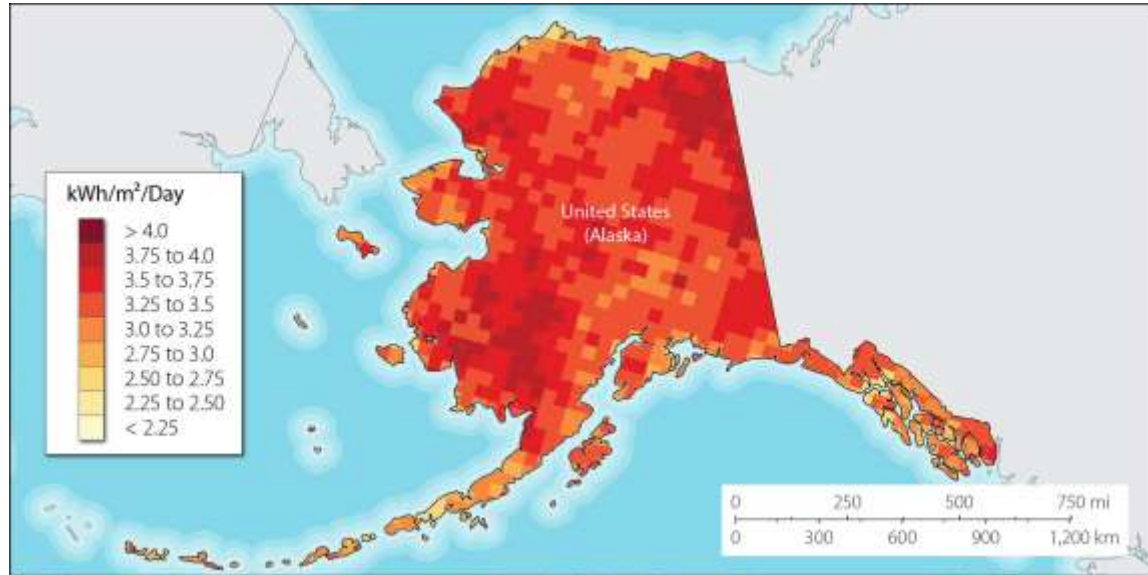
Resource Potential: 48 Contiguous States

While American Indian land comprises ~2% of the total U.S. land base, it represents an estimated 5% of the total U.S. renewable energy generation potential.

The total generation potential for renewable energy generation on tribal lands is **21 million megawatt hours (MWh)**.



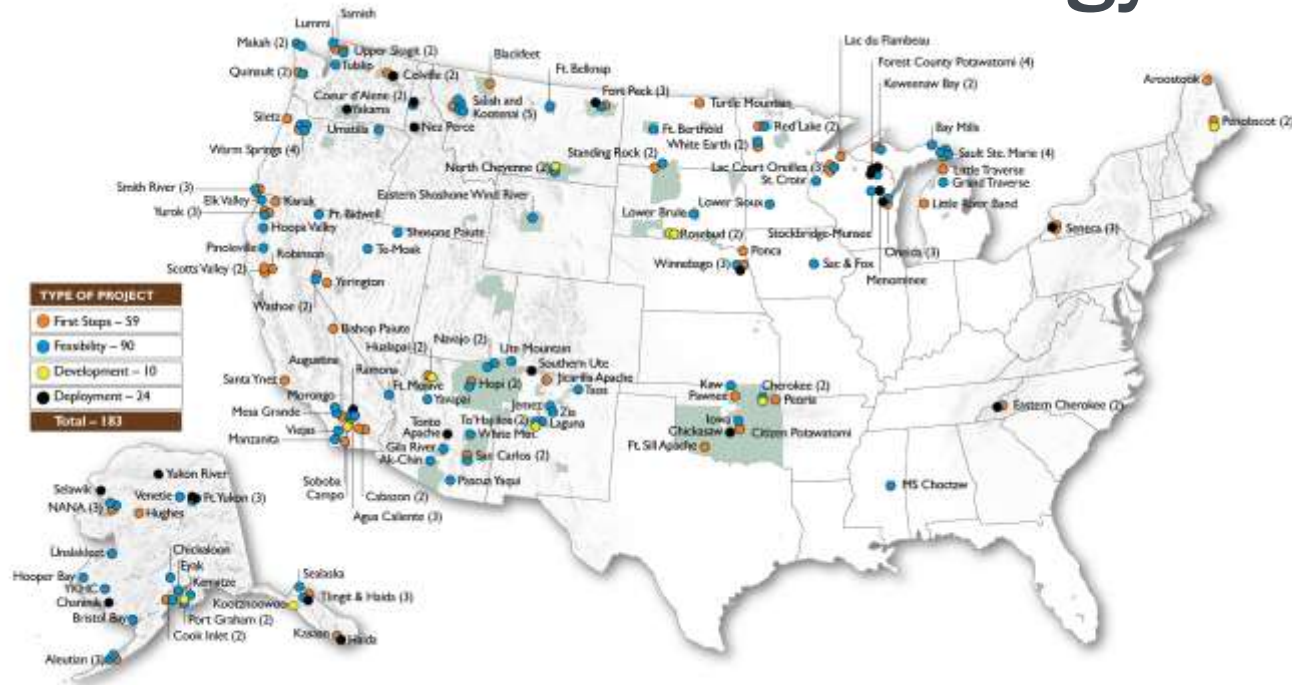
Resource Potential: Alaska



Alaska's solar resource is comparable to that of Germany, which leads the world in PV installations with more than **38,500 megawatts (MW)** of solar installed as of October 2015.



DOE's Investment in Tribal Energy Projects



DOE has invested **\$48 million** in **183** tribal clean energy projects valued at **\$93.6 million** (2002–2014). DOE's investments were leveraged by **\$45.6 million** in tribal cost-share. Tangible results of those shared investments include:

- Retrofitting **70 tribal buildings** saving tribes more than **10 million kilowatt-hours** of energy and **\$2.5 million** per year
- Completing energy audits on more than **250** tribal buildings
- Moving more than **580 MW** of potential new renewable energy generation into development
- Supporting tribes and Alaska Native villages in assessing the potential for more than **4 gigawatts** of new renewable energy generation
- Providing training to more than **170** tribal project participants

How We Advance Program Priorities

Information & Outreach

- Office of Indian Energy website
- Project development and finance resource library
- ICEIWG
- Tribal leader roundtables
- Communications (listserv, blog, newsletter, fact sheets)
- Inter-tribal conference attendance and sponsorships

Analyses

- Geospatial Analysis of RE Tech Potential on Tribal Lands
- Financing Opportunities for RE Development in AK
- Military Base Off-taker Opportunities for Tribal RE Projects

Capacity Building

- Tribal Leader Education Programs and Forums
- Online educational and training curriculum (technology basics and project development)
- Project Development and Finance In-Person Workshops
- Tribal Renewable Energy Webinar Series

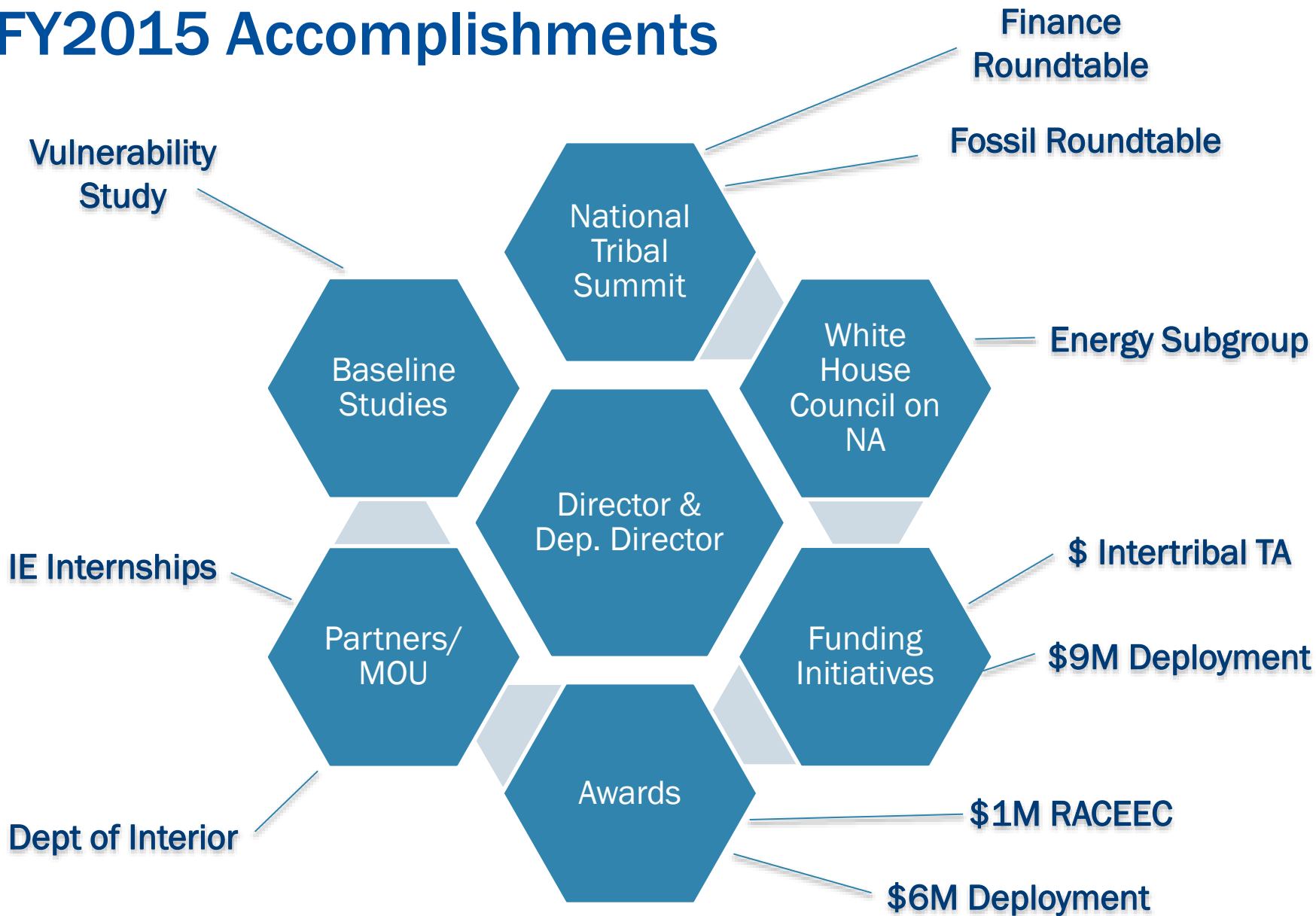
Technical Assistance

- START Program (Alaska and L48)
- Short-term, in-depth technical assistance (up to 40 hours) with strategic energy planning and project development support to address specific barriers

Financial Assistance

- Competitive funding opportunity announcements
- Tribal Indian Energy Loan Guarantee Program

FY2015 Accomplishments





U.S. Department of Energy
Office of Indian Energy Policy
and Programs

Strategic Roadmap 2025



1

Promote Energy
Development

2

Reduce or Stabilize
Energy Costs

3

Enhance Energy and
Economic Infrastructure

4

Foster
Electrification

5

Support Energy
Initiatives

A Path to Economic Sovereignty: Everyone has a Role

Strategic Target Areas



People, Communications,
Operational Structure



Partnerships, Relationships,
Communications, Reputation



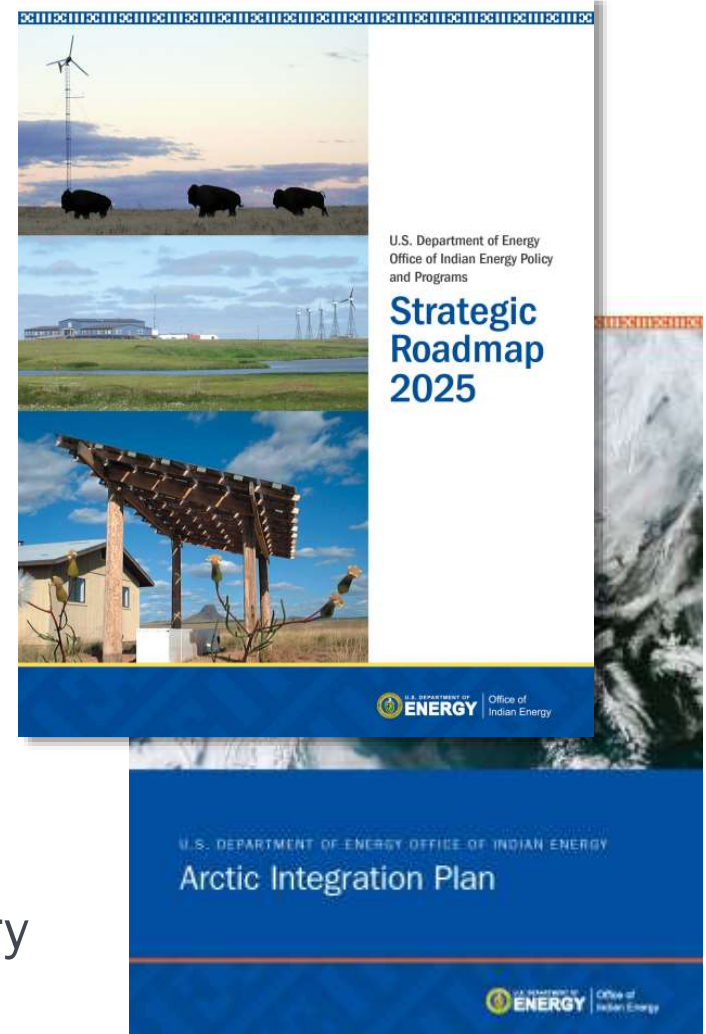
Institutionalize the Office of
Indian Energy



Advance Indian Energy Policy



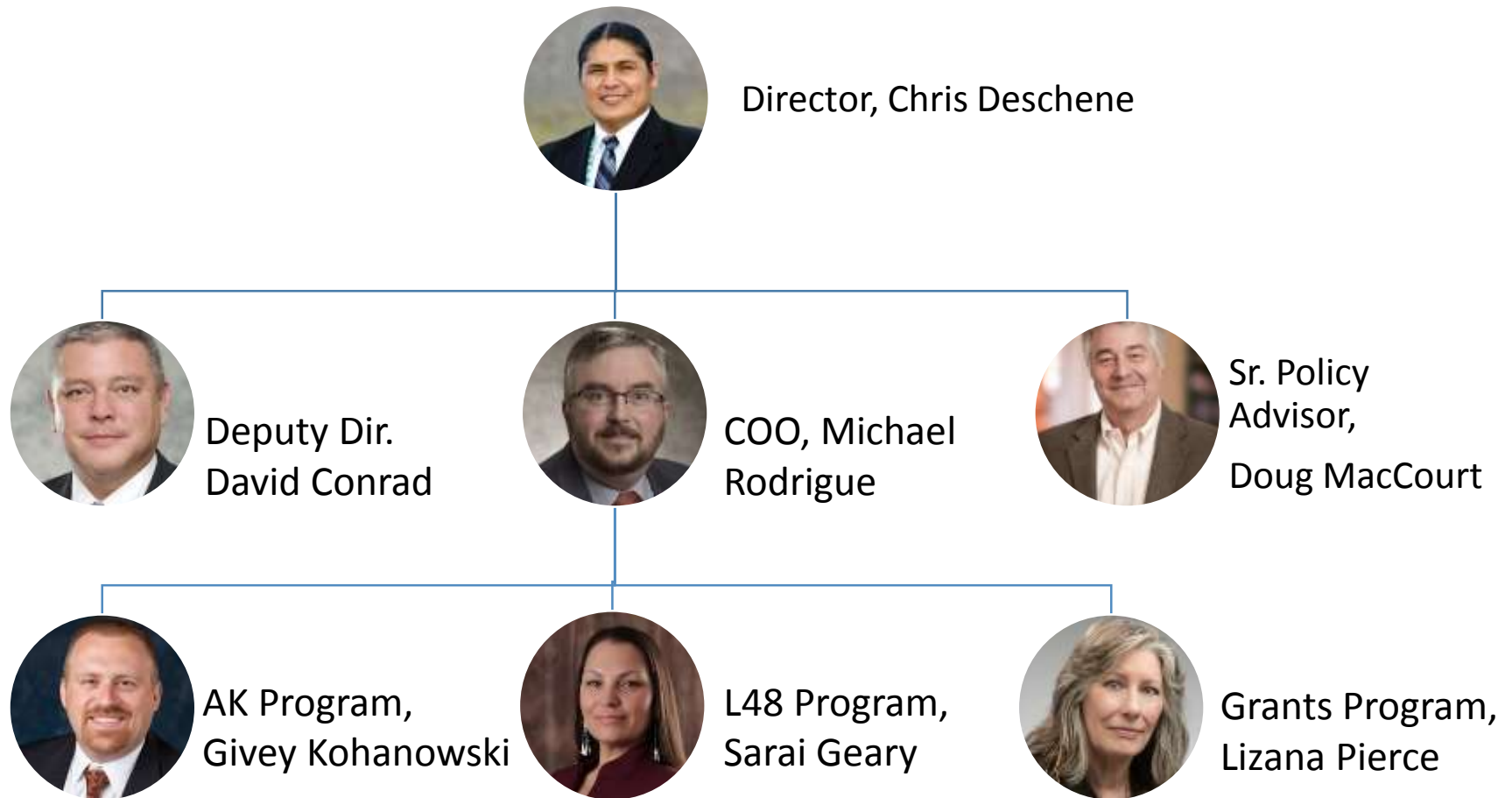
Maximize Services to Indian Country



2016 Priorities



Office of Indian Energy Staff



Thank you!

Christopher Clark Deschene
Office of Indian Energy Policy & Programs
Department of Energy
(202) 586-1272

Website: www.energy.gov/indianenergy
Email: IndianEnergy@hq.doe.gov