

Oak Ridge National Laboratory

ORNL Summer Small Business Outreach: A Virtual Meeting Business Opportunities

July 14, 2020

10:00 a.m. – 11:30 a.m. Eastern

ORNL Contracts Division

Brooks Baldwin, Division Director

ORNL is managed by UT-Battelle, LLC for the US Department of Energy



U.S. DEPARTMENT OF
ENERGY

Welcome

- **Brooks Baldwin**
Contracts Division Director



Agenda

Welcome

Doing Business with ORNL

Project Updates and Business Opportunities

Construction

IT/Computing

U.S. ITER

Second Target Station

Additional Projects

Latest from the SBA

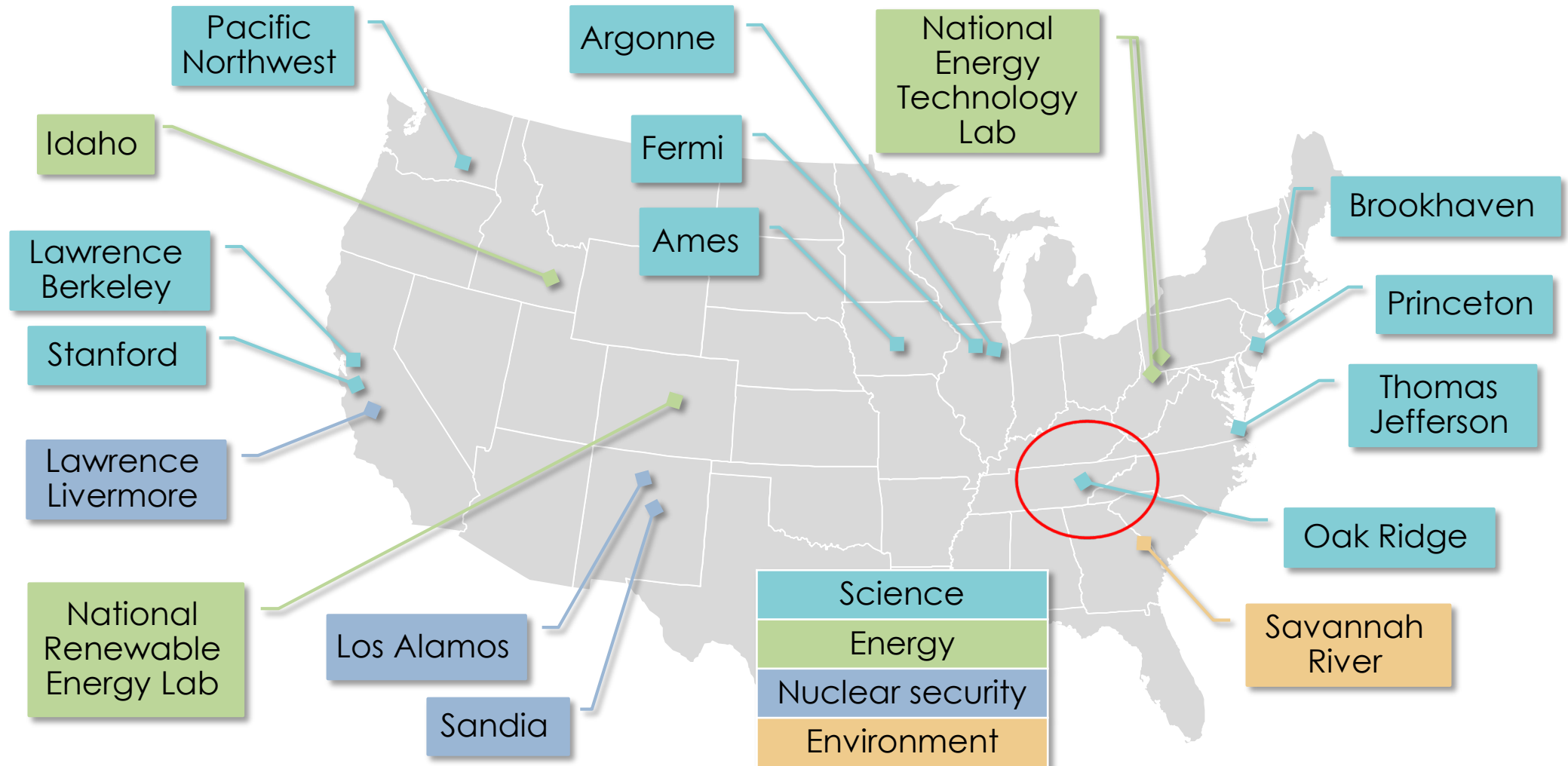
Q&A

Doing Business with ORNL

- **Cassandra McGee Stuart, DBA**
Manager, Small Business Program



The national laboratories of the U.S. Department of Energy constitute a network for discovery and innovation



AMERICAN GIRLS

ORNL Business Opportunities

- <https://smallbusiness.ornl.gov>

OAK RIDGE National Laboratory SMALL BUSINESS PROGRAMS OFFICE

Home Business Opportunities Mentor-Protégé Program Facts Awards

Search...

Is your business a good fit?

Oak Ridge National Laboratory provides contracting opportunities for small and disadvantaged businesses. If your business can provide quality products and services on time and within budget, we want to talk to you!

CONTACT US TODAY

Business Opportunities

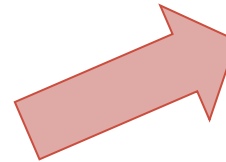
Find a list of contracts currently available at Oak Ridge National Laboratory and for small businesses.

Mentor-Protégé Program

Learn about the Department of Energy initiative designed to help small businesses enhance their capability to perform subcontracts.

Small Business Program Facts

Get the facts about ORNL's Small Business Program to see if your business is a good fit.



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ORNL Business Opportunities

Brooks Baldwin, Director, Contracts - (865) 576-7151

Cassandra McGee Stuart, Manager, Small Business Programs - (865) 576-3560 / mcgeecm@ornl.gov

For International ITER Business Opportunities, please see: <https://www.usiter.org/opportunities/procurements>

For general information concerning the ITER project, please see: <https://www.usiter.org/>

Sign up to to be notified by email when new listings are posted! **SUBSCRIBE**

Print this page

Current Business Opportunity Listings

Category	Description	Small Business Set-Aside	Estimated Value	Expected Issue Date	Expected Award Date
Fabrication and Machining Services	Cryo-guard Vacuum System (CGVS) Details	No	> \$500K	May-19	Jul-19
Industrial and Facility Services	Camera Investigations, Civil Survey, and Geotechnical Details	No	\$1M - \$2M	Jul-19	Sept-19
Construction	Construction Services to SNS Site Details	Yes	< \$10M	Jul-19	Oct-19
Construction	Asphalt Paving Details	No	> \$1M	Jul-19	Aug-19
Construction	OLFCS Electrical Upgrade Details	Yes	\$8.8M	Jul-19	Sept-19
Industrial Equipment	Furnace Details	No	> \$200K	Jul-19	Aug-19
Industrial Equipment	Tokamak Cooling Water Systems - Drying System: Charging Compressor Details	No	< \$1M	Sept-19	Dec-19
Industrial Equipment	Tokamak Cooling Water Systems - Vacuum Vessel Baking Heater and Drying System Electrical Heater Details	No	> \$1M	Sept-19	Dec-19
Construction	SNS PPU Klystron Gallery Construction Details	No	\$4M - \$5M	Aug-19	Sept-19

ORNL Business Opportunities

Current Business Opportunity Listings

Category	Description	Small Business Set-Aside	Estimated Value	Expected Issue Date	Expected Award Date
Industrial and Facility Services	Camera Investigations, Civil Survey, and Geotechnical Details	No	\$1M – \$2M	Jul-19	Sept-19
Construction	Construction Services to SNS Site Details	Yes	<\$10M	Jul-19	Oct-19
Construction	OLFC5 Electrical Upgrade Details	Yes	\$8.8M	Jul-19	Sept-19
Industrial Equipment	Tokamak Cooling Water Systems – Drying System: Charging Compressor Details	No	<\$1M	Sept-19	Dec-19
Industrial Equipment	Tokamak Cooling Water Systems – Vacuum Vessel Baking Heater and Drying System Electrical Heater Details	No	>\$1M	Sept-19	Dec-19
Construction	Specialty Concrete Details	No	\$750K	Sept-19	Sept-19
Computer/IT Services	GNU Compiler Collection (GCC) Support for Basic Ordering Agreement Details	No	>\$2M	Aug-19	Oct-19
Professional and Staffing Services	U.S. ITER Electromechanical Analysis Support Details	Yes	>\$1M	Sept-19	Dec-19

ORNL Business Opportunities

Small Business Set-Aside: Yes

Estimated Value: >\$10M

NAICS Code: 541611

Expected Issue Date: July 2020

Expected Award Date: October 2020

Contact Name: Angela Shillings

Contact Email: shillingsag@ornl.gov

ORNL Business Opportunities

- <https://smallbusiness.ornl.gov>



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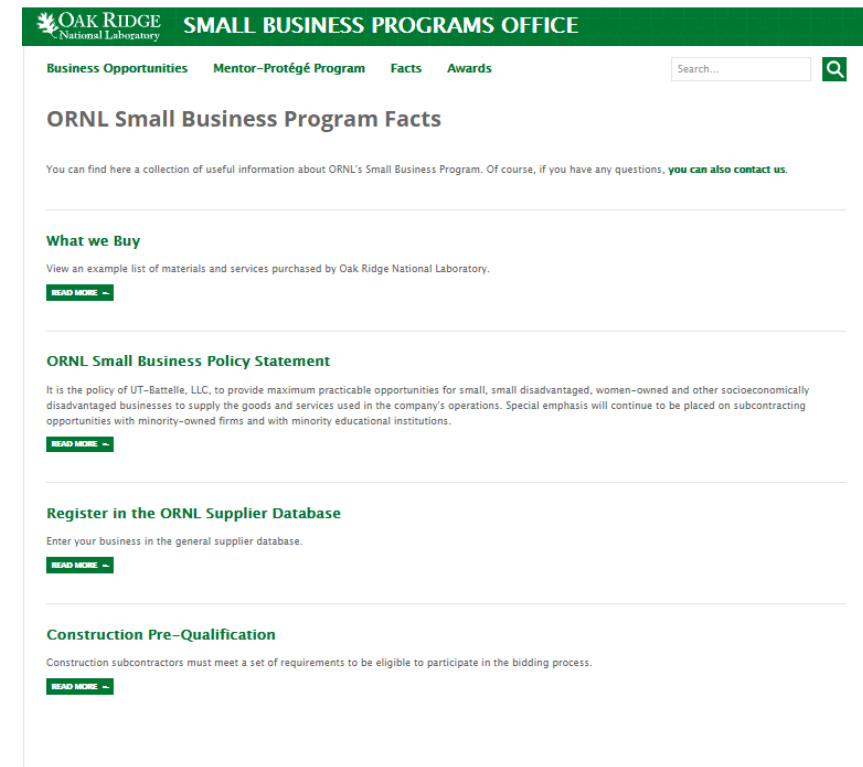
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Business Opportunities Mentor-Protégé Program Facts Awards

Search...

ORNL Small Business Program Facts

You can find here a collection of useful information about ORNL's Small Business Program. Of course, if you have any questions, **you can also contact us.**

What we Buy

View an example list of materials and services purchased by Oak Ridge National Laboratory.

READ MORE

ORNL Small Business Policy Statement

It is the policy of UT-Battelle, LLC, to provide maximum practicable opportunities for small, small disadvantaged, women-owned and other socioeconomically disadvantaged businesses to supply the goods and services used in the company's operations. Special emphasis will continue to be placed on subcontracting opportunities with minority-owned firms and with minority educational institutions.

READ MORE

Register in the ORNL Supplier Database

Enter your business in the general supplier database.

READ MORE

Construction Pre-Qualification

Construction subcontractors must meet a set of requirements to be eligible to participate in the bidding process.

READ MORE



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SMALL BUSINESS PROGRAMS OFFICE

Business Opportunities Mentor-Protégé Program Facts Awards

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ORNL Facts

Construction Pre-Qualification

Below is a link to the list of subcontractors eligible to participate in the bidding process and eligible for consideration in awards of prime construction/demolition Subcontracts by the Company:

ORNL Listing Of Qualified Construction Subcontractors

Organizations interested in being added to the listing will need to submit the following information:

1. Transmittal letter which includes the following:
 - Company Name
 - Company Address
 - Point of contact (POC)
 - POC's Phone Number
 - POC's Fax Number
 - POC's E-mail Address
 - Current business size (Big or Small) and any socioeconomic considerations (disadvantaged, woman-owned, etc.)
 - Specialty area(s) (General Contractor, Mechanical, Electrical, Demolition, etc.)
2. Current State of Tennessee Contractor's license. The license must be in the name of the firm wanting to be on the list, not in the name of an individual, parent company, or subsidiary.
3. Health and Safety Program that meets the requirements of OSHA. According to OSHA, an effective Safety and Health Program includes four main elements. Those elements are management commitment and employee involvement, worksite analysis, hazard prevention and control, and safety and health training. Subcontractors shall submit for approval their Safety and Health Program that addresses the Oak Ridge National Laboratory's **Elements of Construction S&H Program** (01/08).

More Information

- **ORNL Small Business Policy Statement**
- **What we Buy**
- **Register in the ORNL Supplier Database**
- **Construction Pre-Qualification**

Project Updates & Business Opportunities: **Construction**

- **Landon Hill**

Procurement Manager



Construction

- <https://web.ornl.gov/adm/contracts/>
 - Construction Labor Agreement
 - Construction Specification Forms
 - Qualified Construction/Demolition Subcontractors



Acquisition Management Services Home
Contact Us
Staff & Assignments
Documents Index
Worker Safety & Health
Accounts Payable
Marketplace Catalog Documents
Construction/Demolition
Electronic Funds Transfer
Business Opportunities
ORNL Supplier Portal
Organization Structure
ORNL Acquisition Management Services Internal

Related Sites

- [SNS Procurement](#)
- [U.S. ITER Procurement](#)
- [Small Business Programs](#)
- [Mentor Protégé Program](#)
- [Subcontract Property](#)



B&IS Directorate >

NOTICE TO SUPPLIERS

Fraudulent Quote Requests/Purchase Order E-Mail Activity

UT-Battelle, LLC (UT-B) Contracts Division wants to alert suppliers to an active email scam involving request for quotations and issuance of purchase orders that purport to originate from UT-B but are in fact fraudulent. While UT-B cannot prevent this illegal activity, we want to inform our supplier community and promote awareness of such events.

We can share some common traits or themes of these fraudulent emails that may help reduce risk to your company in becoming a financial victim of this scam:

- The email message may be poorly written, with misspellings and awkward sentence structure.
- The senders email address is not the same as UT-B standard email address domain. The email address domain for Oak Ridge National Laboratory: xxx@ornl.gov
- The message and purchase order requests shipment/delivery of products to non-Oak Ridge National Laboratory facilities.
- The message will include an attachment that is designed to look like a purchase order, and includes a logo or other graphic, and a signature that may look legitimate.
- The message and/or purchase order may even include a signature that looks legitimate, representing one of our management team or buyers.

If you believe you have received a fraudulent email that appears to be from UT-B, please forward the message to vendoradm@ornl.gov in order to verify its legitimacy before responding to the email or fulfilling the order. UT-B will not be responsible for invoices for products ordered under this scam.

Suppliers should also contact their local law enforcement if they suspect that they are a victim of this scam. If you have received confirmation that the email is fraudulent, you may also file a complaint directly with the Internet Crime Complaint Center (IC3) at IC3.gov. The IC3 is a partnership between the FBI and National White Collar Crime Center.

Project Updates & Business Opportunities: **IT/Computing**

- **Justin Keck**

Procurement Manager



IT/Computing

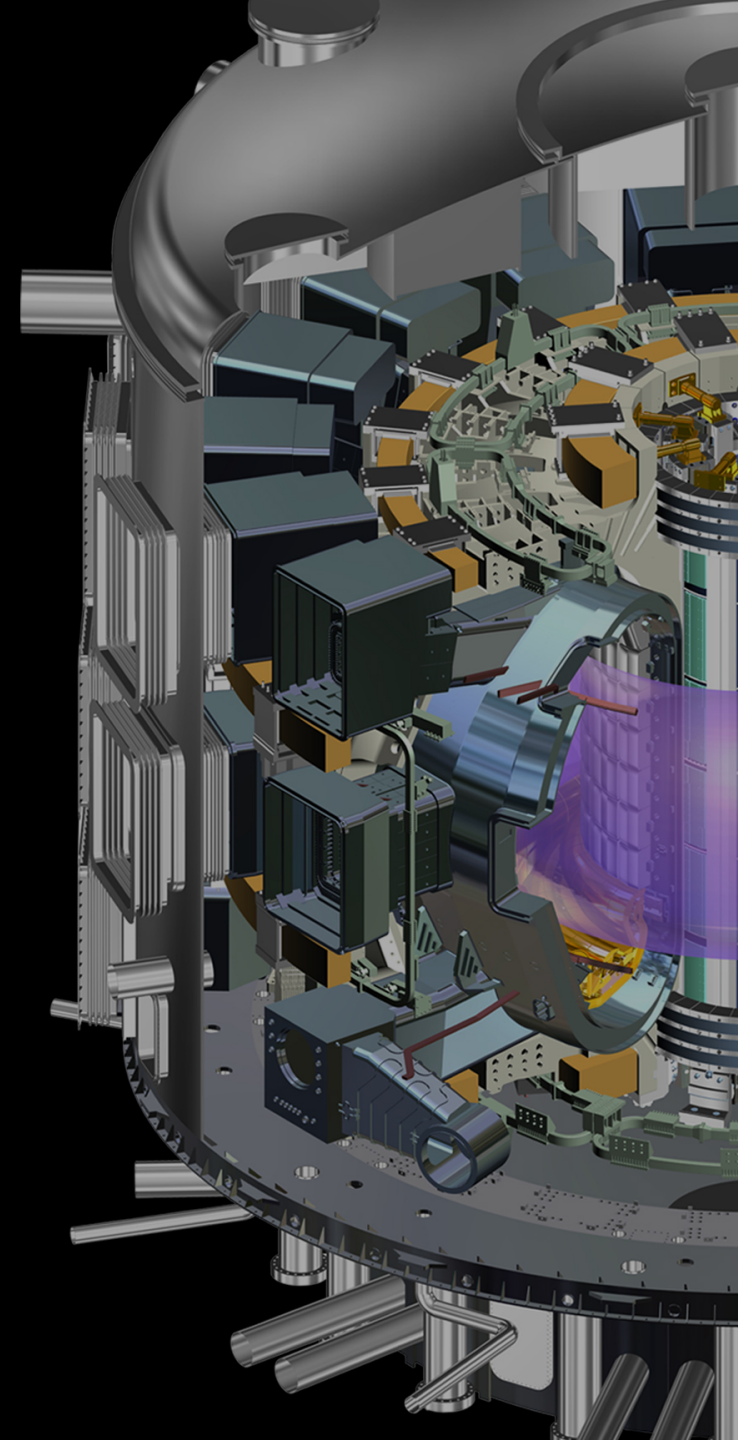
- Recent Competitions
- Upcoming Competitive Opportunities
 - Hardware refresh and maintenance for Display Interface
 - SAP License Opportunity for Certified Resellers
 - Cloud-Based Curriculum Content Repository
- These and any other major year-end opportunities will be posted at the Business Opportunities page.

Project Update and Opportunities: **US ITER**

Cain Wooten, Senior Project Engineer

Lisa Cobb, Procurement Manager

July 14, 2020

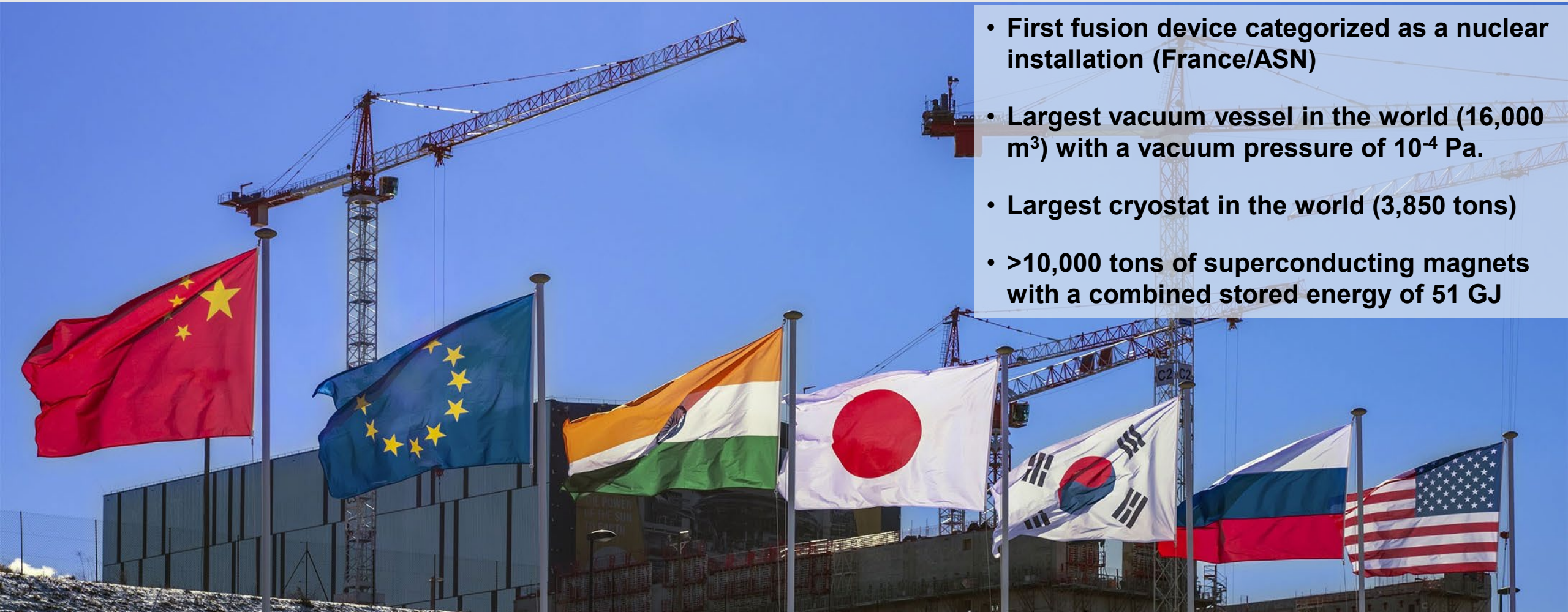


ITER Mission

To demonstrate the feasibility of fusion energy for peaceful purposes



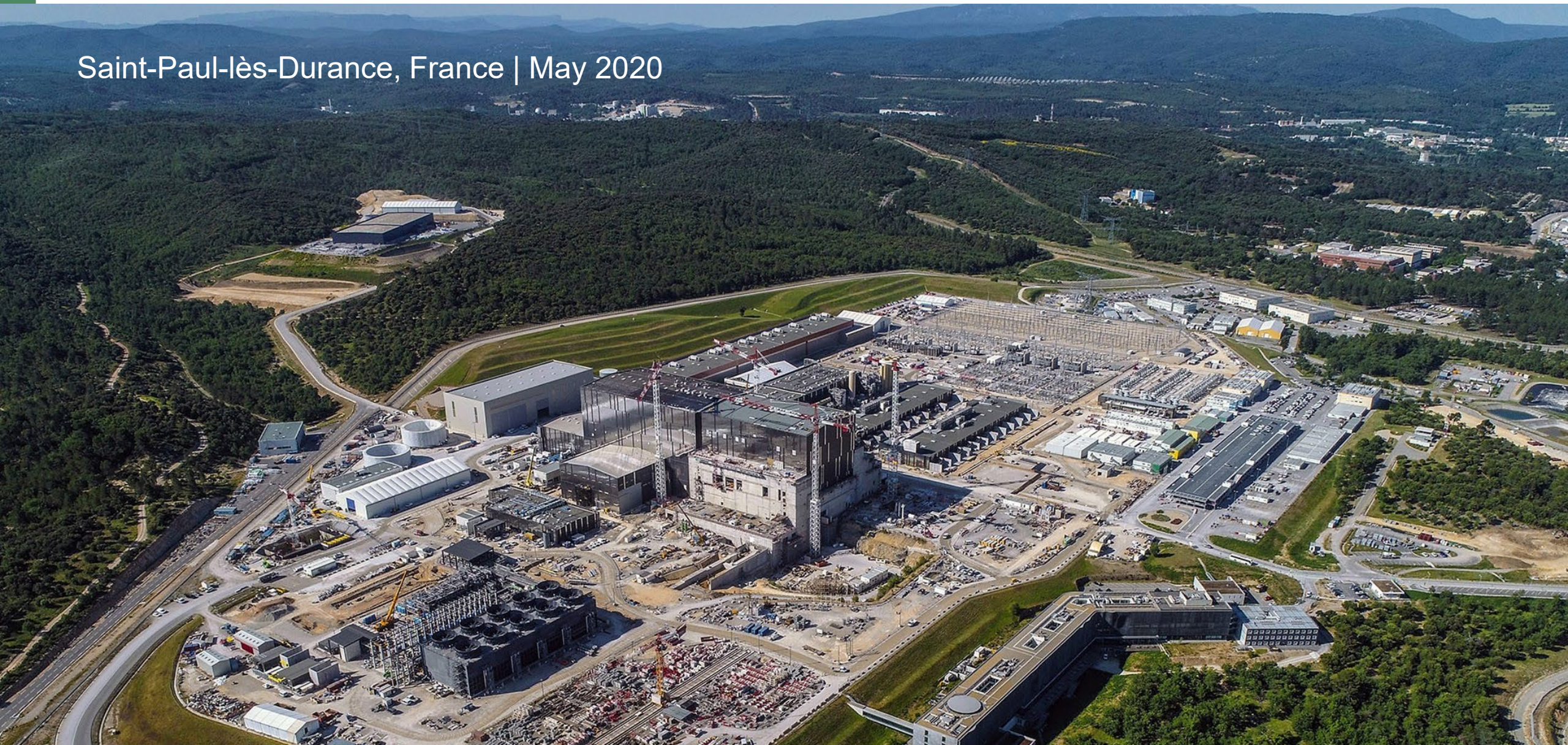
- First fusion device categorized as a nuclear installation (France/ASN)
- Largest vacuum vessel in the world (16,000 m³) with a vacuum pressure of 10⁻⁴ Pa.
- Largest cryostat in the world (3,850 tons)
- >10,000 tons of superconducting magnets with a combined stored energy of 51 GJ



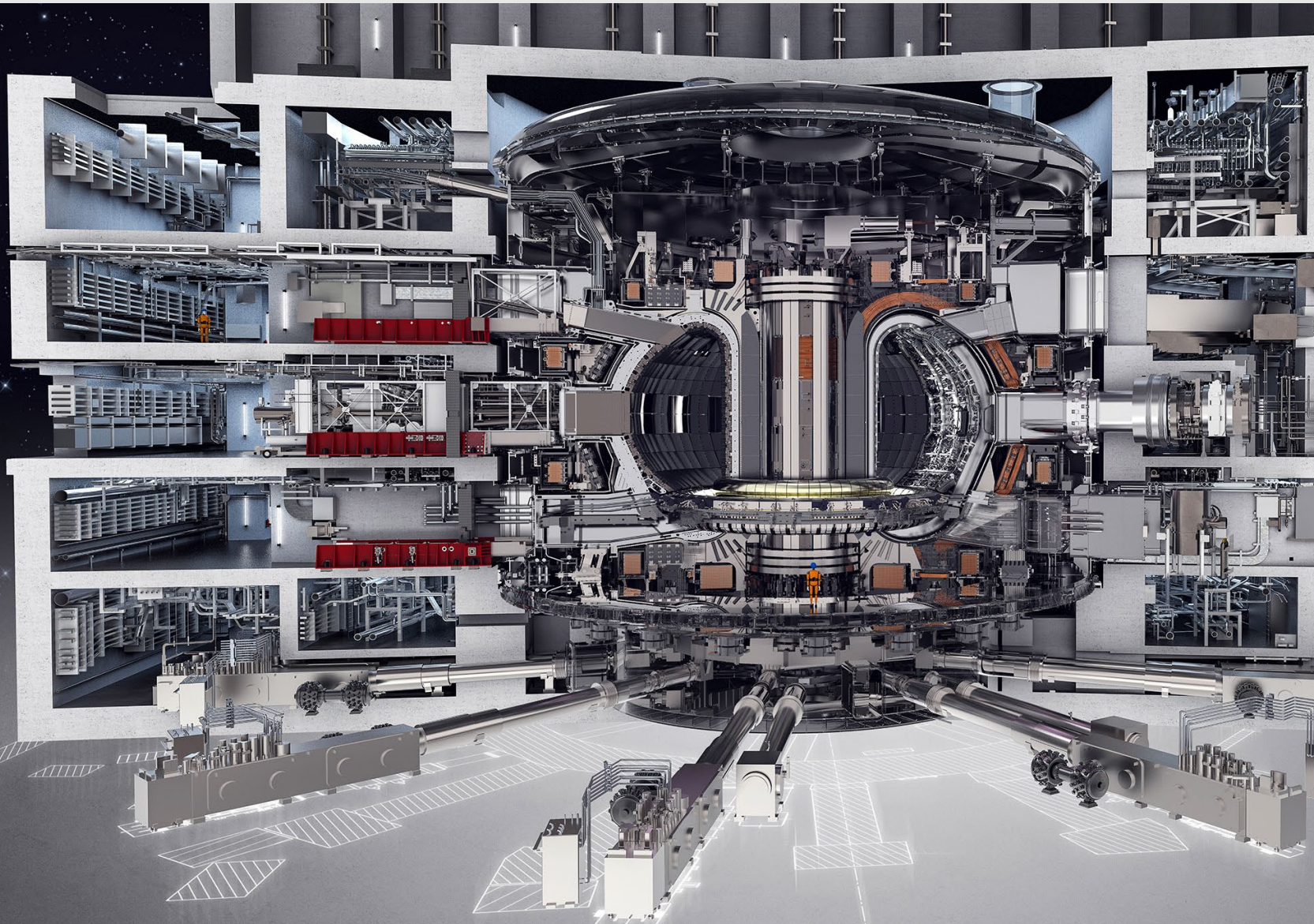
International ITER Project is ~70% complete for First Plasma site construction and components

ITER Site

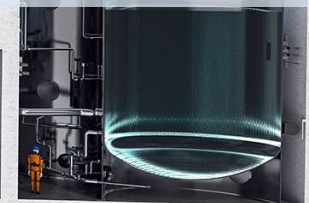
Saint-Paul-lès-Durance, France | May 2020



ITER Tokamak Complex



- 23,000 ton, 30 m Wide
- Plasma temperature is 10X the Core of the Sun – 150 Million °C
- Fusion energy 500 MW Output power.
- Largest Tokamak in the world, Plasma volume is 840 m³ with a 6 m radius.

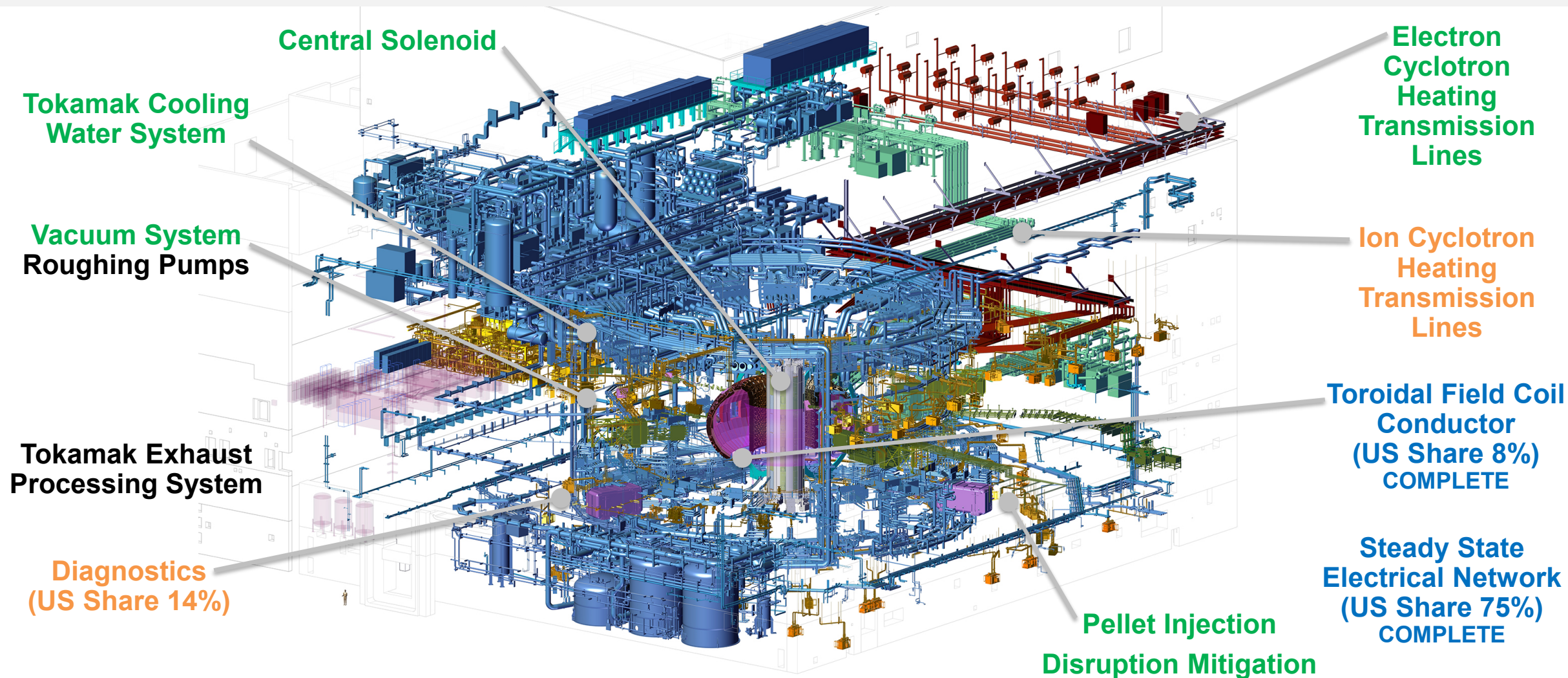


china eu india japan korea russia usa



US Hardware Scope

Key: In design • Prototypes in fabrication • Hardware in fabrication • Complete

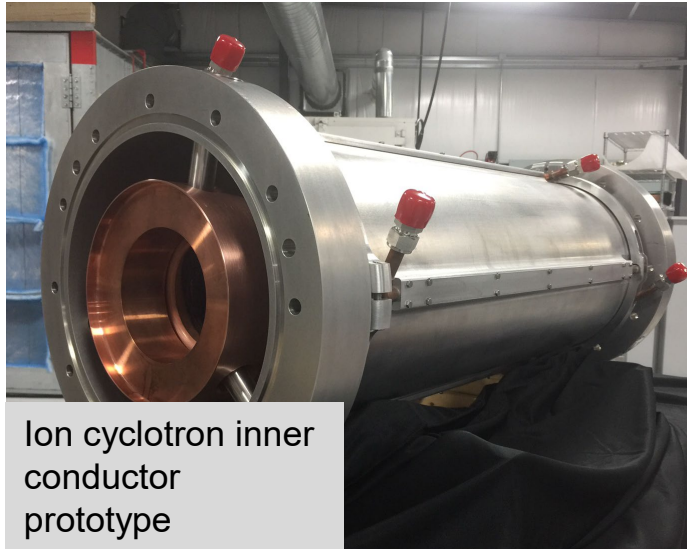


Upcoming Procurement Areas in 2020

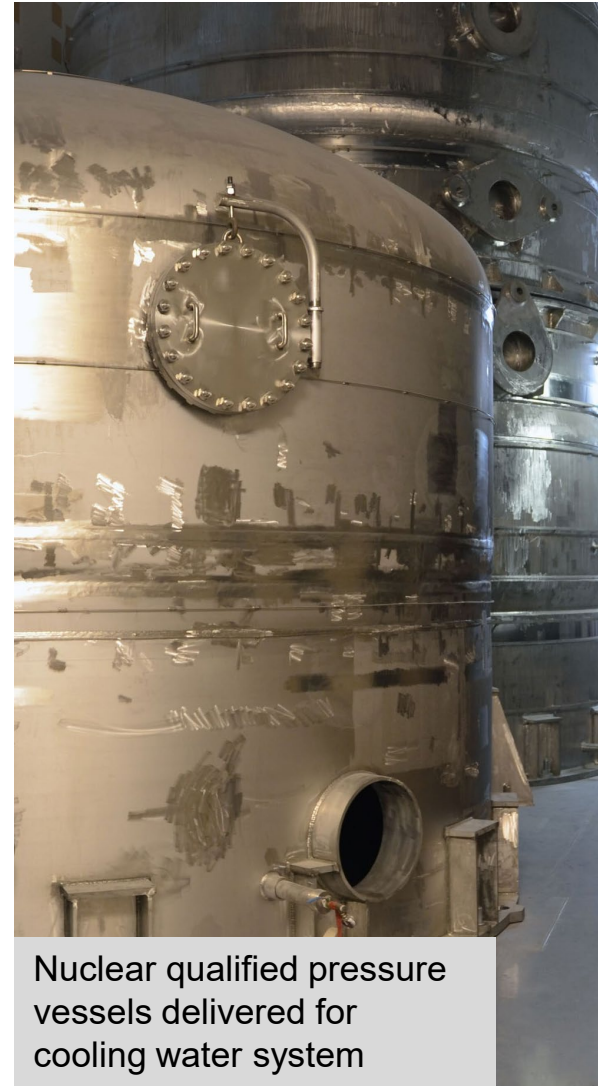
- Tokamak Cooling Water System
- Electron Cyclotron Transmission Lines
- Ion Cyclotron Transmission Lines
- Vacuum Systems
- Instrumentation & Controls
- Pellet Injectors
- Disruption Mitigation



Electron cyclotron
expansion unit
prototype



Ion cyclotron inner
conductor
prototype



Nuclear qualified pressure
vessels delivered for
cooling water system



Prototype shattered pellet
injectors installed on KSTAR
tokamak

Upcoming Procurements in 2020

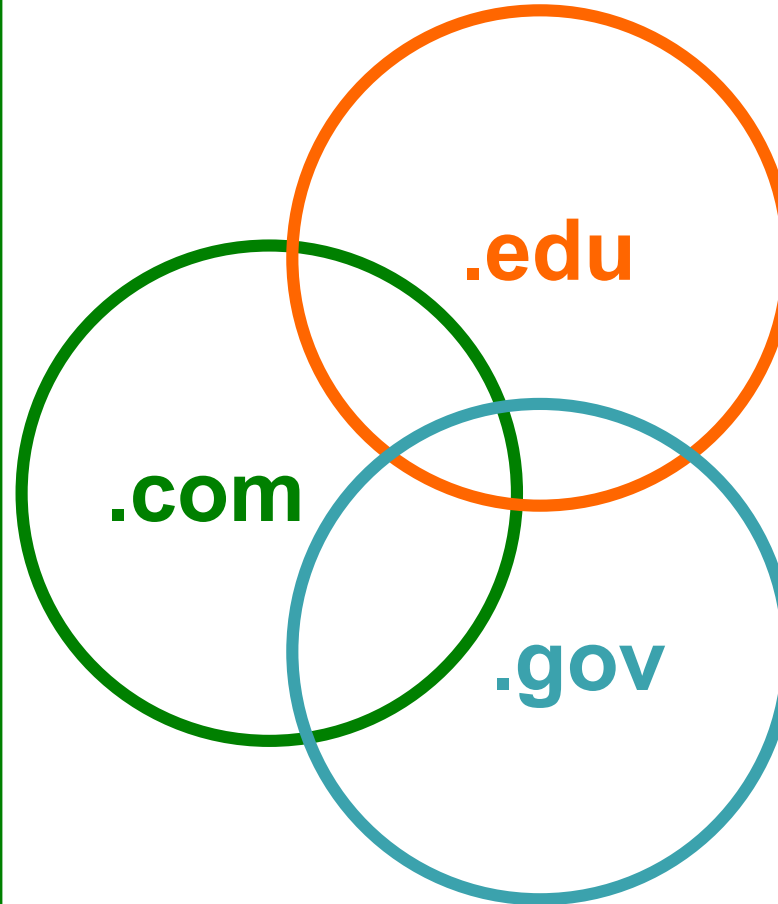
US ITER Procurements and ITER IO Procurements

- Current US ITER Procurement Opportunities are posted at: <https://usiter.org/opportunities/procurements>.
- Interested bidders should watch the IO website <https://www.iter.org/proc/overview> for other opportunities.

All US sectors are engaged

INDUSTRY

- **General Atomics**, San Diego, CA
 - **ORANO USA**, Charlotte, NC
 - **Luvata Waterbury, Inc.**, Waterbury, CT
 - **Precision Custom Components**, York, PA
 - **PCC/Schulz**, Robinsonville, MS
 - **Oxford Superconducting Technology**, Carteret, NJ
 - **High Performance Magnetics**, Tallahassee, FL
 - **Schneider Electric**, Palatine, IL
 - **Robatel Technologies**, Roanoke, VA
 - **Petersen, Inc.**, Ogden, UT
 - **Superbolt**, Carnegie, PA
 - **Hayward Tyler**, Colchester, VT
 - **Hyundai Corporation**, Houston, TX
 - **New England Wire Technologies**, Lisbon, NH
 - **St. Germain Heavy Industrial Projects**, Houston, TX
 - **Hamill Manufacturing**, Trafford, PA
 - **Major Tool & Machine, Inc.**, Indianapolis, IN
 - **Mega Industries, LLC**, Gorham, ME
 - **Dielectric Communications**, Raymond, ME
 - **Siemen's Industry, Inc.**, Wendall, NC
 - **Eaton Corporation**, Cleveland, OH
 - **Kamatics**, Bloomfield, CT
- ...and 100s more



UNIVERSITIES

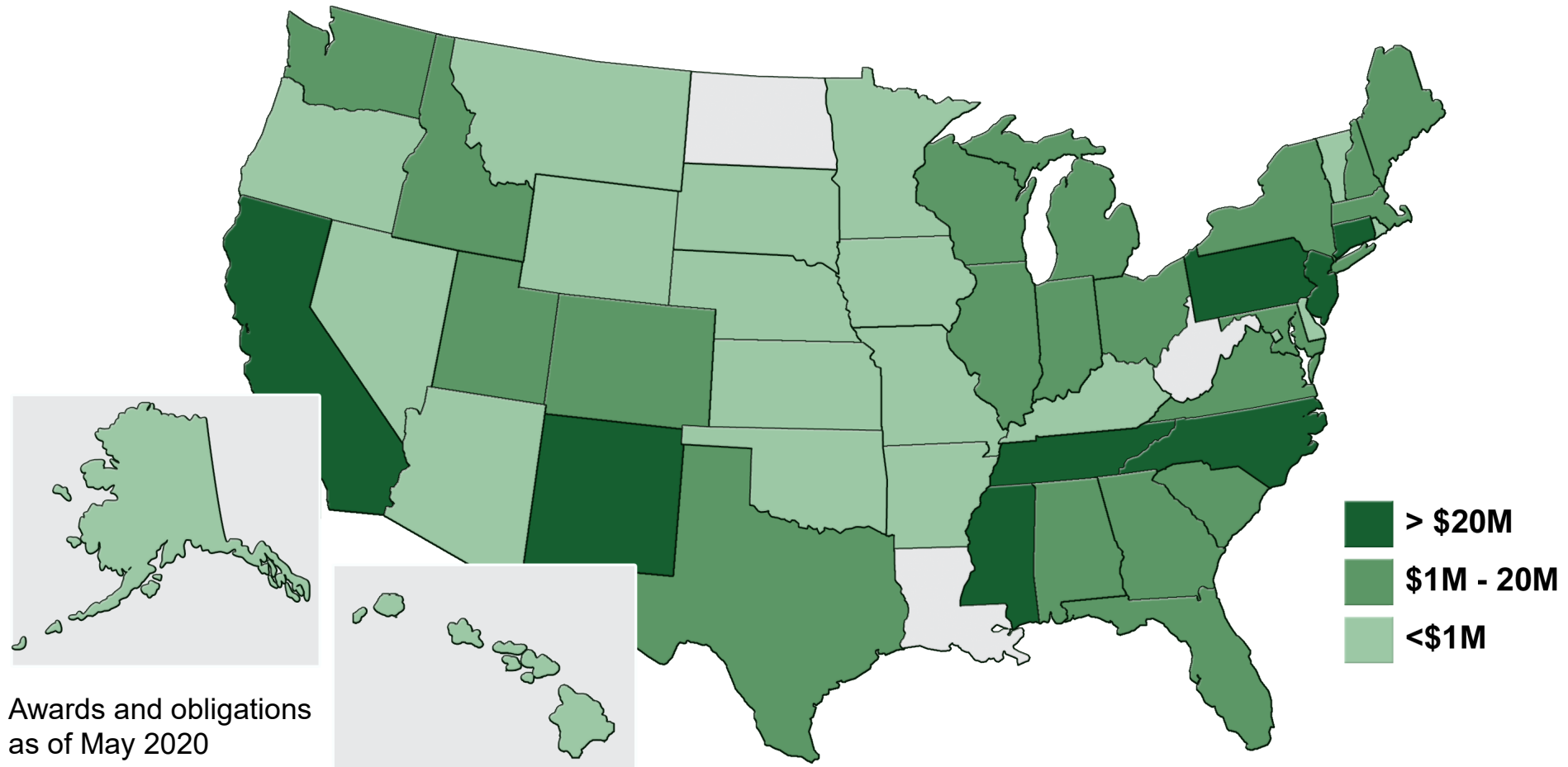
- Massachusetts Institute of Technology
- University of Texas at Austin
- University of Tennessee
- Florida State University
- University of Wisconsin at Madison
- University of California Los Angeles
- University of Michigan
- University of California San Diego
- Columbia University
- Washington State University
- Indiana University

NATIONAL LABORATORIES

- Oak Ridge National Laboratory
- Princeton Plasma Physics Laboratory
- Sandia National Laboratory
- Savannah River National Laboratory
- Los Alamos National Laboratory
- Lawrence Livermore National Laboratory
- Idaho National Laboratory
- Fermi National Laboratory
- Argonne National Laboratory
- Lawrence Berkeley National Laboratory

~\$1.4B to US industry, universities, labs

Over 80% of US ITER funding remains in the US



Project Updates & Business Opportunities: **Second Target Station**

- **Nick Perry**

Procurement Manager



Introduction

- STS Organization
- STS Procurement
- Procurement Planning
- Sample Procurements
- Conventional Facility Status
- Summary/Questions

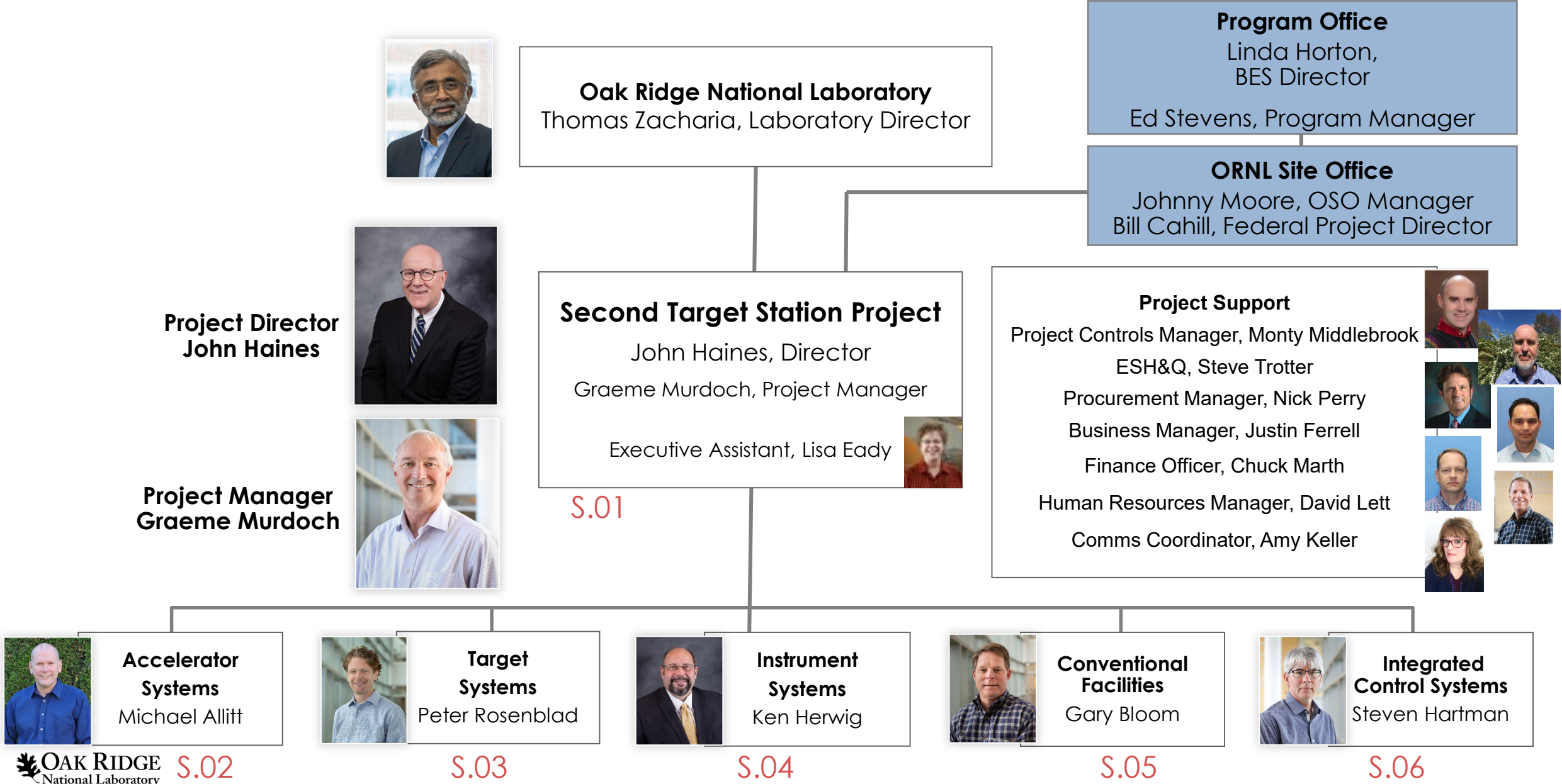
SNS upgrades will accelerate scientific progress and deliver wholly new capabilities



STS project: Build the second target station with initial suite of beam lines

- Optimized for cold neutrons
- World-leading peak brightness
- Provide new science capabilities for measurements across broader ranges of temporal and length scales, real-time, and smaller samples

STS Project Organization Chart is well aligned with WBS



Procurement Organization

- Current Staff
 - Nick Perry, STS Procurement Manager
 - Barbara Shaw, Procurement Officer
 - Jeff Gerdes, Procurement Officer
- Additional Procurement staff will be added to support the Buy-Out and Administration of procurements for STS
- Additional support will be provided by ORNL Contracts Division personnel for lower \$ value and rapid commercial purchases

Procurement Planning

- STS Procurement staff will follow ORNL Procurement Operating Practices in accordance with UT Battelle Prime Contract
- A “Material Assignment Schedule” (MAS) will be developed to plan, manage and track procurements
- The Team is in the process of identifying all future procurements and will be added to the MAS

Procurement Strategy and Delivery Methods

- Various procurement strategies and delivery methods will be utilized consisting of:
 - Subcontract/Purchase Order
 - Basic Ordering Agreement
 - Task Order
 - Standardized Items/Bulk Purchase
 - Subcontract/PO with Options
 - Fixed Price
 - Time and Materials
 - Cost-Reimbursement
 - Incremental Funding
- Fixed price agreements place the responsibility to perform within the stated price on the subcontractor and will be used at every opportunity

Sample of Major STS Procurements

#	Name	Estimated Cost (M)
1	Manufacturing - Bulk Shielding Components	\$12.50
2	Monolith Inserts (15 Upper and 6 Lower Moderators)	\$11.00
3	Cooling Water System	\$7.90
4	Manufacture Core Vessel Body	\$7.80
5	Manufacturing - CW System GFE	\$7.60
6	MRA - including Be, moderators, vessel, structure, and piping	\$7.00
7	Target disk including drive shaft	\$6.70
8	Cold Box & Oil Removal Skid - He Refrigeration System Components	\$6.60
9	Polarizing Analyzer	\$5.20
10	SiPM Pixelated Camera Detectors	\$5.20
11	Manufacturing - Waste Disposal Cask	\$4.00
12	³ He Detector Tubes	\$3.70
13	Detector Vessel	\$3.30
14	Bunker Roof Panels & Alignment Structures	\$2.80
15	Low Speed Choppers (F,H) & Components	\$2.70
16	High Speed Choppers (P,M) & Components	\$2.50
17	Detector 8-packs	\$2.10

Two Major Procurements in Progress for Conventional Facilities

- AE Design Services Estimated value \$30-49M
 - Basic Ordering Agreement (BOA) with one AE firm
 - Firm Fixed Price Task Orders
 - **Acquisition Plan Approved**
 - Solicitation in final approval stage
- CM/GC Contract Estimated value \$600-\$630M
 - Base Contract – Pre-construction Services – fixed price
 - Option 1 CM Services (Cost of CM Staff and Staff Resources, pre-negotiated change fees) – fixed price
 - Phased Firm Fixed Price Scope Packages
 - Acquisition Plan in progress
 - Solicitation in progress

Summary

- STS Procurement is appropriately staffed for this stage of the Project and is/will be adding staff to support the buy-out of the project
- Procurement Procedures and Approved Purchasing System in Place
- Procurement Planning is advancing and working with the STS Team to identify procurements
- Two Major Procurements for Conventional Facilities are in progress and advancing to meet project schedule

Additional Projects

- **Brooks Baldwin**
Contracts Division Director



Additional Projects

- U.S. Stable Isotope Production and Research Center (SIPRC)
 - Increase the domestic production capabilities of stable isotopes for scientific, industrial, national security and medical uses
 - Over 500 individual purchases
 - Key components are dipole magnets and pressure vessels
 - Begins in FY21

Additional Projects

- Materials Plasma Exposure Experiment (MPEX)
- Design, fabricate, install, and commission a Linear Plasma Device to address the need for expanded materials science capabilities, particularly as it pertains to Plasma Material Interactions
- Estimated \$40M in procurement in a 2-3 year period
- Some similarities to US ITER procurement scope
 - Magnets
 - Vacuum systems
 - Electrical systems
 - I&C
 - Diagnostics

Project Updates & Business Opportunities: **Latest from the SBA**

- **Jutta Bangs**

Director, TN Small Business Development
Center, Roane State



Latest from the SBA

Tennessee Small Business Development Centers

Come in WE'RE **OPEN** *for Business!*

www.tsbdc.org

AMERICA'S
SBDC
TENNESSEE
SMALL BUSINESS
DEVELOPMENT CENTERS

AMERICA'S SBDC
ACCREDITED MEMBER

**ORNL 2020 SUMMER
SMALL BUSINESS OUTREACH**

Questions

