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china eu india japan korea russia usa

March 2015

SPECIAL
EDITION

2015 ITER BUSINESS FORUM

Palais du Pharo, Marseille, France - March 25-27, 2015

www.iter.org

STRONG COLLABORATION WITH INDUSTRY NEEDED

WE ARE ENTERING A NEW PHASE

An academic, scientist and high-level civil servant who "has always been concerned with energy issues," Bernard Bigot, from France, is the third Director-General of the ITER Organization. "We are now entering into manufacturing and preparations for assembly," he says. "This new phase requires a new organization – one tailored to meet these two major challenges, because what we have to deliver now is both a research and an industrial facility."

Dear partners and future partners of the ITER Project,

It is my honour to address you for the first time in my new role as Director-General of the ITER Organization. The ITER Project, as you all know, is one of the largest international science collaborations in the history of mankind. The seven ITER Members represent 35 nations, half the world's population and around 85 percent of its gross industrial product.

As we are convening here in Marseille for the sixth ITER Business Forum, ITER has reached a new and decisive phase: we are past the time of "learning" and we are now entering into manufacturing and preparations for assembly. This new phase requires a new organization – one tailored to meet these two major challenges, because what we have to deliver now is both a research and an industrial facility.

Over the coming weeks and months we will progressively implement the action plan I proposed to the ITER Council, and which has been accepted unanimously by all partners. This action plan will result in some drastic changes regarding the organization and the conduct of this project. But implementing new approaches and new procedures is inevitable if we want to succeed. ITER is a unique chance to demonstrate that tokamak fusion is manageable during this century – there will be no other.

I therefore want to wholeheartedly invite and encourage you to come on board and to join us in our quest for a new clean source of energy. We cannot build ITER without strong collaboration from industry.

During this two-day event you will have several opportunities, both formal and informal, to meet with representatives of the ITER Organization, our Domestic Agencies and other institutions involved in the ITER Central Team. We will do all we can to provide you with a better understanding of how the ITER Organization works, how the tokamak works, and how we manage the complex procedures for building this machine through in-kind procurements from the seven ITER Members.

And please always bear in mind that as a partner of ITER you are not just providing components or technology. You are part of one of the world's most challenging scientific, industrial and human ventures. Fusion's energetic potential is unparalleled. It is within our grasp to change the energy future of generations to come.

Bernard Bigot

ITER Director-General

THE ITER SUPPLY CHAIN

A TEAM OF NATIONS

Seven ITER Members – representing 35 nations – are sharing the responsibility for building the ITER machine and facilities. During the negotiations that preceded the signing of the ITER Agreement, the original sharing of procurement was decided between the Members – about 45.5 percent for Europe, and 9.1 percent each for China, India, Japan, Korea, the Russian Federation and the United States. The lion's share – 90 percent – will be delivered by means of in-kind contributions. That means that in the place of cash, the Members will be delivering components and buildings directly to the ITER Organization.

Procurement Arrangements are a unique ITER invention. Each one of these documents governs the procurement of plant systems, components, or site construction, detailing all the necessary technical specifications and management requirements. The value of each PAs is expressed in ITER Units of Account (IUAs). This currency was devised for ITER to measure the value of in-kind contributions consistently over time, effectively neutralizing market fluctuations. Procurement allocations were assigned among the Members on the basis of valuations of components; contributing 9.1 percent of the project, therefore, becomes a matter of adding up the IUA value of the different contributions.

UPCOMING

BUSINESS OPPORTUNITIES

The ITER Organization, now in its eighth year, is well into the construction of the world's largest tokamak and is preparing for the next phase: assembly. A total of 104 out of 139 Procurement Arrangements have been completed, representing 90.5% of the project's total in-kind value. This means that ITER is now in the hands of industry.

But this is by no means the end of the ITER business story. There are still some very attractive and important opportunities in the pipeline. During the second quarter of 2015, the call for nomination for the manufacturing and testing of ITER's in-vessel coils will be launched, as well as contracts for the manufacturing of ITER's diagnostic first wall and the diagnostic port plug. A lot of contract opportunities will also be posted for the Tokamak Complex detritiation system and the Tokamak cooling water system. In the field of electric systems, call for tenders are planned in the coming months for the low voltage cable and connectors for the cryostat and the high-voltage connectors. Towards the fourth quarter of this year, contracts are planned for remote maintenance operations, maintenance tooling, and port cell equipment.

Last but not least, procurement will soon start for the ITER assembly phase. The assembly of the ITER machine – with one million components – will be one of the most complex engineering endeavours ever undertaken and one requiring a broad range of skills and expertise, tooling and equipment to achieve.

In order to inform our industrial partners about the ITER procurement strategy for assembly at an early stage, and thus enable them to best prepare for the tendering phase, we are organizing a dedicated Assembly Information Day which will be held on 21 May at ITER Headquarters. Please consult the ITER website or visit the ITER exhibition stand at IBF/2015 for more information.

In order to successfully build ITER, the ITER Organization – together with the seven Members – relies on highly skilled industrial partners as well as national laboratories. We are looking for the most technically sound and economically efficient solutions for the challenges ahead.

Together we can and will develop the necessary competencies for taking fusion energy to the commercial scale.

Francoise Flament

ITER Procurement and Contract Division

Companies under contracts with ITER as of 23 feb 2015 (prepared by PCD)

A
ABGAM SA Grupo Segula Technologies
Active Space Technologies SA
Advanced Cryogenic Materials Ltd
AEMC
AFNOR
AIB-VINCOTTE INTERNATIONAL
AIES SP ZOO
AIR LIQUIDE ADVANCED TECHNOLOGIES
Air Liquide France Industrie
AIRBUS DEFENCE AND SPACE SAS
ALCELI
Alphysica GmbH
ALSTOM WUHAN
ALTRAN MEDITERRANEE
AMEC FRANCE SAS
AMERICAN INSTITUTE OF PHYSIC
AMERICAN PHYSICAL SOCIETY (APS)
AMETRA
Analyse Etudes Formation Conseil
ANSALDO NUCLEARE SPA
ANTYCIP SIMULATION
APAVE SA
APAVE Sudeurope SAS
AREVA TA
ARIAL INDUSTRIES
Arkadia Technology
Arrow Central Eruope GmbH
Aspen Technology, Inc.
Assystem Engineering&Operation Serv
ASTARE
AT Scientific LLC
Autocars Sumian
Avasarala Technologies Ltd
AVEVA
AXA ASSISTANCE FRANCE
AXIANS Systelcom
AXON Cable SAS
B
BARCELONA SUPERCOMPUTING CENTER
BCF Solutions France SARL
Bertin Technology
BISMART BUSINESS AND INTELLIGENCE
BOGELYN ENGINEERING LTD
BRAR ELETTROMECCANICA Srl
Bricard SA
Bureau Veritas
BUSINESS & DECISION PACA
C
CADENAS FRANCE SARL
CAN LS ENGINEERING
Canadian Nuclear Laboratories
Canal de Provence (SCP)
CAPSIM
CARLSON WAGONLIT TRAVEL
Cavendish Nuclear Ltd
CAVERSHAM ENGINEERING SERVICES Ltd
C-CON France sarl
CEA
CEGELEC
CeramTec North America Corporation
CERN
CESI S.p.A
Challenge Learning Sarl
Charlemagne Professionel
Charles Kendall & Partners limited
Ciemat Centro de Investigaciones
CIRCLES FRANCE
CLAVIS SARL
CNIM
Coficiel Bungalows
COMEX NUCLEAIRE
Compass Group France - Eurest
COMPUTACENTER
Comsoft SAS
CONSORZIO CREATE
Consorzio RFX
COSYLAB d.d.
CRIT SAS
Cryo Schippl
CTE Nordtest
Curland Ltd
D
D. MENDELEEV UNIVERSITY of Chemical
DAHER INTERNATIONAL
DALKIA France
Dassault Systemes SA
Deloitte Conseil Finance
Delta Electricite Electronique
DHL International
E
EC Harris LLP
Ecole Polytechnique Federale Lausane
Ecrin Systems
EFFICIENT INNOVATION
ELC Engineering
EMPRESARIOS AGRUPADOS
ENEA - ITALY
EQUIPOS NUCLEARES S.A.
Ernst &Young
ESI international
Euroscript Services
EVERSHEDS LLP
Expectra
F
FIRCROFT ENGINEERING SERVICES LTD
FOM
FORC-Photonics
Forschungszentrum Jülich Gmbh
FSU RESEARCH FOUNDATION
FUSAC TECHNOLOGIES Ltd
G
G2 METRIC SAS
GENERAL ATOMICS
Geodynamique & Structure
GEOMETRIC EUROPE GMBH
GLOBAL KNOWLEDGE NETWORK (UK)
GLOBAL SOFTWARE UK LTD
GME AEOS/DOOSAN Power Systems ltd
GTIE Telecom SAS
H
HBM France SAS
Hefei Institutes of Physical Science
HEW-KABEL GmbH & Co. KG
HIGH BRIDGE Associates. Inc.
HITEX
HSBC France
I
Iberdrola Ingenieria Construccion
ICAS S.C.r.l
ICPS SASU
IDAC
IGE
Indra Sistemas SA
Infinities 1st
Ingenico e-Commerce Solutions SAS
Instituto di Fisica del Plasma
INTERGRAPH FRANCE SAS
INTRANSIC ENGINEERING LTD
IOP PUBLISHING
IPM CONSULTING
ISQ Internacional
J
JACOBS Nucleaire SAS
JD Solutions
JSC "NIIEFA"
K
Karlsruher Institut fur Technologie
KEPCO Engineering and Construction
Kinnarps SA
KOMPAFLEX AG
Korea Atomic Energy Research Institute
Kraftanlagen Heidelberg GmbH
L
La Mondiale Europartner SA
LA POSTE
Le Monde Après
Les Travaux du Midi
LGAI Technological Center S.A.
LOS ALAMOS NATIONAL SECURITY, LLC
LT CALCOLI SRL
M
MAGNETECH LIMITED
MAIN SECURITE
MANPOWER
Marseille Travel Services (MTS)
Marti-Supratec AG
MAX PLANCK (GARCHING)
METEO - FRANCE
METROMECANICA SL
MOBIIS Co, Ltd
Morson International
N
Nagoya University
Natec Ingenieros
National Institute for Laser Plasma
National Institute for Fusion Science
National Instruments
National Nuclear Laboratory - NNL
Nederlandse Organisatie voor Toegep
Neith Associates BV
Neopost France
NextiraOne
Nitek USA Inc
Nuvia Ltd
Nuvia Structure
O
Object Interactive Limited
OECD
ONDES INFORMATIQUE D ENTREPRISE
ONET
Option Plus
ORANGE BUSINESS SERVICES
OREP
OSIATIS FRANCE
OXFORD TECHNOLOGIES LTD
P
PAUL SCHERRER INSTITUTE
PHAREA SAS
PHIMECA
Plasma Simulation Center
PMRC Limited
Porvair Filtration Group Ltd
PRD sas
PREVENTEO
Previnter Mobility Expat
PricewaterhouseCoopers PRTM
Princeton University Plasma Physics
Project Time & Cost UK Ltd
PROMAN
PTC
PUBLI-CREATIONS S.A.M.
Q
Questions de bon sens
R
RANDSTAD
Ravanat Chaudronnerie
RBH Optics
RE Design Consultancy Ltd
REID RON
RENATER
Ristor France SARL
Rockwood Composites Ltd
Rosenberger
ROSETTA STONE SA
RPE Engineering Services
RUCKER LYPSA S.L.
Ryalis Engineering
S
S.P.I.N. SRL
SAM Apave Monaco
SARENS France SAS
SARL FGI CONSULTING
SARLU JCE Consulting
SAS Groupe SCALA
Schneider Electric IT France
Science and Technology Facilities Council
SDMS S.A.S
Sener Ingenieria y Sistemas SA
Services Organisation Methodes SOM
SFR
SI CONTACT
SIACI ST HONORE
SILVERTOUCH
SIMAPS GMBH
SKODA JS
Smartec
SODECO
SOGETI High Tech
Solution F
SOPECA Provence
Sopra group
SOUTHWESTEN INSTITUTE OF PHYSICS
Spatial Alignment Ltd
SPRETEC
ST PETERSBURG COMPANY Energopul Ltd
STOW France SAS
Streiffband AG
Superkryo Limited
SUST Srl
T
TATA Consultancy Services France SA
Technetics Group France SASA
Technical University of Denmark
Technical University of Lodz
Technische Universiteit Eindhoven
Technologie Optique
TECNATOM S.A.
Teknologian tutkimuskeskus VTT Oy
TELINDUS France SAS
The Welding Institute
Thermocoax Sas
THINKING AHEAD CONSULTING SL
Thorn
TIRO-CLAS System
Tokamak Energy Ltd
TOSTI Srl
Total Marketing Services
Tractebel Engineering S.A
TRANSWORD
TUV SUD INDUSTRIE SERVICE GMBH
U
Unisys French Sas
United Kingdom Atomic Energy Authority
UNIVERSIDAD NACIONAL DE EDUCACION
Universidad Politecnica de Madrid
Universita Degli Studi Di Palermo
UNIVERSITA DI BOLOGNA
Universität Basel
UNIVERSITAT POLITECNICA
UNIVERSITEIT TWENTE
University of Pisa
University of Strathclyde
University of Wisconsin Eau Claire
University Of Wisconsin-Madison
USTAV FYZIKY PLAZMATU AV CR VVI
V
VAC CRYO CONSULTING
VACOM
VAT Vacuum Products, Limited
VINCI AUTOROUTE ESCOTA
Vitrociset SpA
VLT - VACUUM LASERS TECHNOLOGY
W
WEBEX
Welding Consultancy UK Ltd
Z
Zurich Insurance PLC

china eu india japan korea russia usa

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France

ANNOUNCEMENT

MIIFED-IBF 2016

In 2016, the Monaco-ITER International Fusion Energy Days joins with the ITER Business Forum to propose a three-day world-class event on ITER and fusion that particularly targets industry.

The conference theme, "ITER and industry – building the world's biggest fusion machine together" will be brought to life thanks to the participation of companies already involved in ITER, as well as companies seeking upcoming business opportunities. During three days, we will bring you into contact with high-level decision makers, international industrialists, experienced researchers and ITER staff, giving you plenty of opportunity to meet reliable partners for your projects.

Join us at MIIFED-IBF 2016 in Monaco, on 8–11 February 2016, under the patronage of H.S.H. Prince Albert II.

For further details… www.miifed-ibf2016.com

ANNOUNCEMENT

ASSEMBLY OPEN DAY 2015

The ITER Organization cordially invites interested industrial companies to participate at the ITER Headquarters in this special event aimed at presenting the scope and the procurement program of the Assembly and Installation phase of the ITER project.

For further details… www.iter.org/assemblyinfoday.com

ANNOUNCEMENT

NEW WEBSITE COMING SOON…

As ITER enters a new phase, it will have a powerful new tool to engage with the public: the all-new ITER website, version 3.0.

In April, the ITER Organization will be launching an all-new website in English and French. The new site is easier to navigate, more visually engaging and offers a host of new features, including spectacular new renderings of the world's largest tokamak.

The aim? To reach – and interest – an ever-wider audience by presenting clear, accessible information on one of the most ambitious scientific and technological ventures of the 21st century.

A mobile version of www.iter.org will be available also!