1. Benin Regas Terminal  Gasol/SOCAR  Benin

FSRU with ~ 430 mmcf/d capacity to be positioned at entrance to port of Cotonou along with an LNG carrier to be used for storage. Regasified LNG to be distributed to Benin, Togo and Ghana via the 678 km West African Gas Pipeline. Pipeline has capacity for 474 mmcf/d and currently transports ~80 mmcf/d. Dredging Int engaged for infrastructure development in Cotonou harbour. SOCAR Trading (STSA) and AfGen (Gasol has option to buy AfGen) have established a strategic relationship for the project. STSA is to source the LNG, but no commitment is in hand. Financing required to proceed. Project has been delayed by variety of issues, including Ghana has been reluctant to commit to deal due to potential of obtaining adequate volume of gas offshore Ghana.

2. Mossel Bay Regas Term  PetroSA  South Africa

FSRU to import gas for GTL plant. PetroSA is considering two sites (Vleesbaai and Voorbaai) for the proposed LNG terminal and has been planning the final investment decision on the $375-510 mil project in Q4 2014. Worley Parsons performed feasibility study in 2013. Study found importation technically feasible but source of gas unclear. Project stalled as PetroSa looks into Mozambique gas and shale gas alternatives. Also, in Nov 2013 DEA suspended PetroSA’s environmental impact assessment application on basis it was not being made by an independent group.
3. Rio Grande Regas Terminal  Petrobras  Brazil

FSRU located in the southern state of Rio Grande to be used as 4th LNG terminal in Brazil. Gas produced would be partially used as feedstock for a new fertilizer plant. Samsung and Hyundai participated with Petrobras in a feasibility study for the project. Initial results of feasibility study have not been favorable. Further analysis is planned to identify cost containment possibilities.

4. Jamaica Regas Terminal  Petroleum Corp of Jamaica  Jamaica

FSRU to supply energy needs of Jamaica. Securing the long term LNG supply has been the main barrier preventing project going forward. Short listing of FSRU bidders dates from 2007. Tenders issued in ‘10 and ‘12, with Exmar the preferred bidder in the first tender and Samsung in the second. No progress since. Need an integrated LNG supply/FSRU infrastructure solution to proceed. According to government, the best case offers would yield a price of US$15.60/mmbtu, "about 50% and 25% greater than what Jamalco and JPS could accept." Project responsibility has passed to Min of Science, Technology, Energy and Mining. PETCOM, local distributor of fuels and LPG, privatization in progress – complicating project.

5. Falconara Regas Terminal  Api Nova Energia  Italy

FSRU capable of processing 4 Bcm/y to be positioned at an existing oil import terminal 16 km offshore Falconara Marittima in the Marche region. Gov’t approval for construction provided in Jul ’11. Saipem to do FEED study. In May ’13, the Ministry of Environment ruled an Environmental Impact Assessment not necessary for project to proceed. Little information since.

FSRU for use as a storage/regas terminal in the Port of Beirut to service Deir Amar power plant. Expression of interest invited for FSRU with capability to process 3.5 mtpa LNG. Tender and award were expected in 2013 but regional instability and interim government delaying project.

7. Delimara Power/Regas Terminal  Electrogas  Malta

FSRU positioned in Marsaxlokk harbor to receive/store/regasify LNG to supply adjacent planned 200MW power plant. Electrogas consortium consists of Siemens, SOCAR, Gasol and a local investor. Consortium was selected by Enamalta as preferred bidder after competitive bidding. Project to be developed under a BOOT arrangement. Capex estimated at €370 million. BNP Paribas, HSBC, KfW are to provide debt financing. SOCAR to own the FSRU, provide equity financing and supply LNG. Long term source of LNG still to be established. Project has been controversial locally -- opposition wants the FSRU to be positioned offshore, not in Marsaxlokk harbor.

8. Port Meridian Regas Terminal  Meridian Holdings  UK

FSRU to utilize as an LNG receiving/regas terminal near Barrow-in-Furness in the UK. Project developed by Hoegh LNG, who sold rights in the project to Meridian Holdings for $20 million. Hoegh to supply the FSRU. Meridian Holdings is owned by the West Face Fund.
9. Colombia Regas Terminal  ININ  Colombia

FSRU to supply gas to 3 new ININ power plants planned in Colombia expected to commence operations in 2016. Exmar has offered a funding package for the FSRU. Source of LNG an issue. ININ is a Houston based company. No known project progress since mid-2012.

10. Cilacap Regas Terminal  Pertamina  Indonesia

FSRU to be used in Central Java. Feasibility study performed in 4Q 2013. Will have regas capability of 100 to 150 mmcf/d. Pertamina to invite bids for leased FSRU in 2014.

11. Tabangao Regas Terminal  Shell  Philippines

FSRU with 4 mtpa regasification capacity to be located adjacent to the Tabangao refinery in Batangas. Feasibility studies have been completed based on a 170,000m3 unit. FEED being carried out by Shell's Technology Center in Bangalore. FID targeted for 2014 and first-gas planned in 2016/17.
12. Phividec Regas Terminal  FDC Utilities/ PetroleumBrunei  Philippines

FSRU positioned in Macajalar Bay to supply gas to an existing power plant now powered by coal and to a planned new power plant. Pet Brunei is cooperating with PNOC and local company FDC Utilities to develop the project.

13. Damar Island FSRU  Khatulista Mandala Energi  Indonesia

FSRU integrated with an 800MW gas power plant. Requires investors to proceed.

14. Thi Vai Regas Terminal  PV Gas  Vietnam

FSRU with capacity of 1 mtpa to use as receiving and regasification terminal in Ba Ria Vung Tau province to supply gas to industrial customers and independent power plants. Operation planned in 2014/15.

15. Son My Regas Terminal  PV Gas  Vietnam

FSRU with initial capacity of 3 mtpa located in Binh Thuan province to supply gas to independent power plants in Son My area. Operation planned to start 2018. Terminal capacity is planned to increase to 6 to 10 mtpa in the period after 2020 in order to supply gas to customers in central and southern region of Vietnam.
16. Bahrain LNG Terminal  NOGA  Bahrain

FSRU to serve as peak period gas supply terminal, similar to that in Kuwait. Galway Group of USA engaged as project consultant. Galway has subcontracted WorleyParsons to carry out the Pre-FEED study. FSRU concept had been studied earlier. Tender for an FSRU had been planned in 2010, and nothing materialized.

17. Chittagong Regas Terminal  Petrobangla  Bangladesh

FSRU to be installed as LNG import terminal on Moheshkhali Island in the Bay of Bengal under a build-own-operate-transfer basis for 15 years. Government plans to import around 500 mil tons LNG annually from Qatar to satisfy future domestic demand. Astra Oil/Excelerate Energy has been shortlisted for contract. But project has stalled. Asian Dev Bank has been considering financing project.

18. Egypt Regas Terminal  EGAS  Egypt

FSRU to receive/regas LNG to offset declining domestic gas output. Project has been delayed due to gov’t changes and instability. But project still planned – tender issued in early October 2013, requesting FSRU in service by April 2014.
19. Gangavaram Regas Terminal  Petronet  India

FSRU being considered for use as an interim regasification unit in Visakhapatnam, Andhra Pradesh. Lease will be for an initial period of 3 to 5 years. Plans call for a land-based LNG plant with 5 mtpa capacity to replace the floating terminal facility. Petronet LNG is owned by ONGC, IOC, GAIL, BPCL, GDFI and ADB.

20. Pipavav Regas Terminal  Swan Energy  India

FSRU with capacity of 4.5 mtpa to use as an LNG receiving/regasification terminal in Pipavav port in Gujarat to supply gas for power projects being developed by Swan Energy. Greenfield LNG terminal will be developed on a built-own-operate-transfer basis. RINA in Sept 2013 was engaged to study metocean conditions and infrastructure design. Gov't environmental approval given in Dec 2103.

21. Gail Kakinada Regas Terminal  AP Gas Distribution  India

FSRU with capacity of 3.5 to 5 mtpa to be positioned in port of Kakinada to provide gas to power plants in Andhra Pradesh. Shell and GDF Suez are participating with GAIL in the project. Earlier Shell had separate plans for an FSRU facility – the two projects have now been combined. Unclear how the VGS FSRU project in Kakinada impacts this project. AP Distribution is JV of GAIL and AP state government.
22. Tamil Nadu  VGS  India

FRU barge + FSU for use as regas terminal in Tamil Nadu on the west coast of India. Concept is similar to the VGS Kakinada project. Wison would build the FRU. Feasibility study and concept design have been completed. Vessel Gasification Solutions (VGS) is located in East Brunswick, New Jersey.

23. Port Qasim Regas Terminal  Engro  Pakistan

FSRU to be positioned in Port Qasim. Elengy Terminal, a subsidiary of Engro, has signed a term sheet with Excelerate to provide a 150,900m3 regas ship as a terminal. ADB and IFC have been asked to participate in project financing. Legal dispute over bidding process and other issues delaying project. Other regas terminal projects have been proposed in Pakistan, none have materialized.

24. Ghana Regas Terminal  GNGC  Ghana

FSRU to be positioned in the port of Tema to provide gas to power plants and local gas consumers. Severe shortage of energy in Ghana has resulted from hydro power limitations. GNGC has been designated as lead agency to develop the gas import capability. Longer term plans call for gas production offshore Ghana to supplement imported gas.