

Romania looking to increase its regional presence, but is it up for it?

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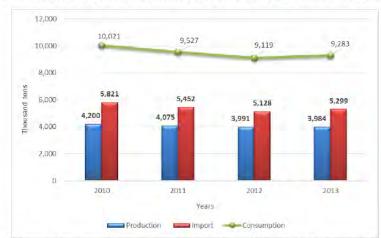


Main items

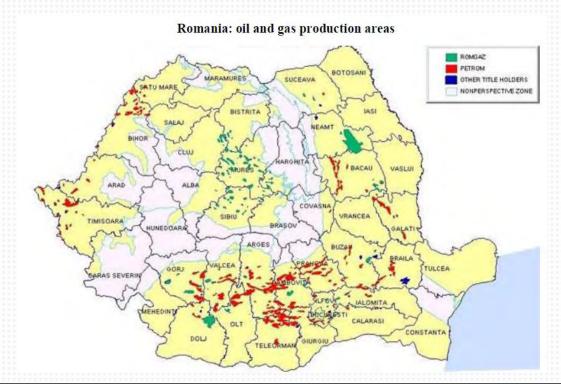
- I. Background
- II. Good luck in resource endowment
- III. Energy sector mismanagement (despite reform progress)
- IV. Romania in regional energy market



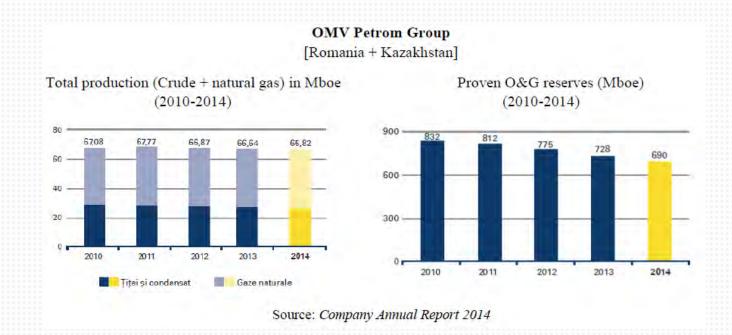




Source: ROEC graph based on data from National Statistics Institute, Romanian Department of Energy, 2014



OMV PETROM



OMV Petrom production in 2014

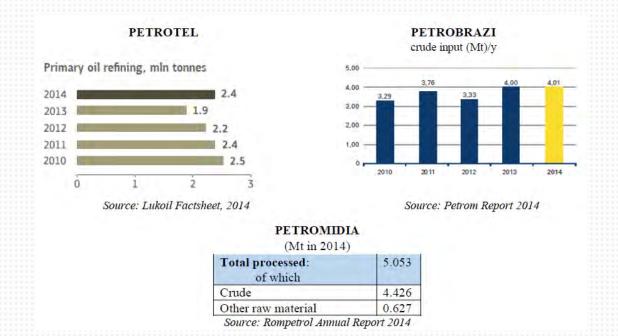
	Crude and condensate		Natural gas		Total	
	Mil. tons Mil bbl		BcmMtoe		Mtoe	
Romania	3.89	27.98	5.29	34.58	62.57	
Kazakhstan	0.38	2.96	0.05	0.30	3.25	
OMV Petrom Group	4.27	30.94	5.34	34.88	65.82	

Refining

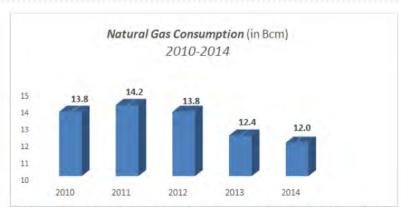
Refineries:

Refinery	Location	Installed capacity	Operational capacity (2014)	Utilization degree (Q1, 2014)
Petrobrazi	Ploiesti	7.5 Mt/y	4.2 Mt/y	68%
Arpechim	Pitesti	7 Mt/y	•	-
Petrotel Lukoil	Ploiesti	5 Mt/y	2.5 Mt/y	85-90%
Petromidia	Midia	5 Mt/y	5.0 Mt/y	91%
Rafo		5.2 Mt/y		-
Darmanesti	Darmanesti	1.15 Mt/y	1 8	1
Astra	Ploiesti	1 Mt/y	0	-
Vega	Ploiesti	0.8 Mt/y	0.33 Mt/y	98%
SteauaRomana	Campina	0.6 Mt/y		-
Petrolsub	Suplacu de Barcau	0.45 Mt/y		

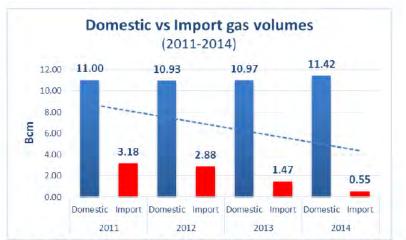
Source: Romanian Department of Energy, Draft Energy Strategy, 2014



Natural gas



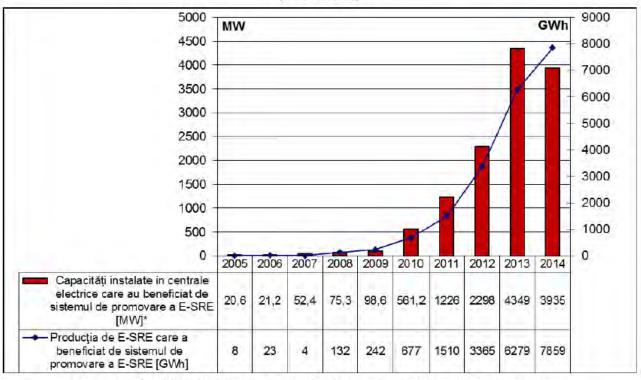
Source: ROEC based on INS data. Note: only domestic gas production + gas imports were taken into consideration. Gas in storage, its variation and industry's own consumption and losses were left out.



Source: ROEC based on INS data. Volumes do not include gas in storage, losses and industry's own consumption

Renewables

Development of installed capacities through the RES-E support scheme (2005-2014)



Note: red (left axis) = MW installed; blue line (right axis) = GWh produced by these units Source: Romania RES Progress Report 2013-2014, p. 37

Number of accredited RES producers by year end

Year	Wind	Hydro	Biomass	PV	Total
2011	42	32	4	4	82
2012	56	47	7	41	151
2013	73	77	14	395	559
2014	73	81	19	456	629

Source: ANRE

Renewables

Progress towards achieving compliance with national target for RES-E(2005-2014)



Source: Romania RES Progress Report 2013-2014, p. 47

NOTE: left axis = % share of RES-E in final gross electricity consumption;
right axis = degree of compliance with national target of %share electricity from RES



Domestically: huge personnel issue

- Appointment of inexperienced people to top energy decisionmaking roles;
- Excessive use of short-term mandates (2017);
- management deterioration;
- Worrisome: governmental sector has become a magnet for low skilled people → serious consequences for Ro's ability to design and implement policy



Low internationalization of Romanian companies

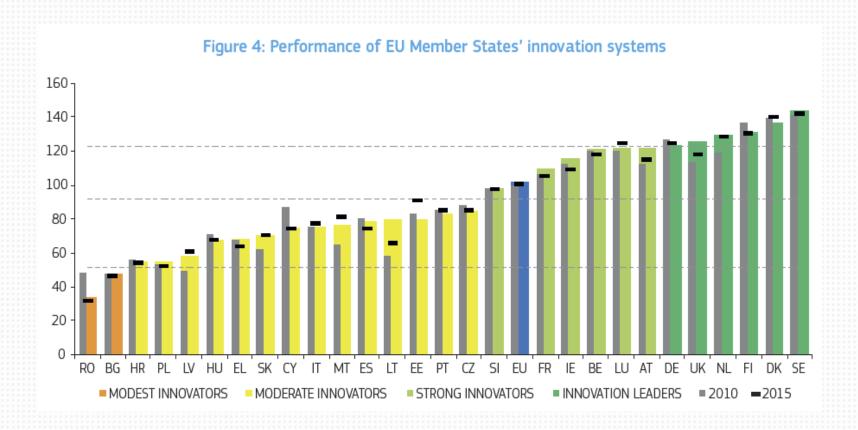
- weak presence outside Romania
- Romania focused
- low motivation to go beyond own borders for business development (exceptions: Romgaz (PL), Transgaz (recent bid in GR))
- But how adequate/realistic are the regional development strategies if domestic backlogs in investment (Transgaz)?



Domestically: decapitalization issue

- SOEs forced to distribute dividends, left w/o cash for investment plans;
- Companies will have to borrow for investment projects;
- Transelectrica already affected
 (system issues→ non-execution of investment and O&M plans →
 brownouts/blackouts (this fall)
- Romania's desire to take on a more active regional role: +
- BUT mismanagement + bad personnel policy by current government = slower regional integration process & main obstacle going forward

Romania - perfect example of country affected by the resource course



Source: European Innovation Scoreboard 2017



Thank you.

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Transelectrica's interest: smart grid & storage

- RE-SERVE Renewables in a Stable Electric Grid (Transelectrica and Politehnica Bucharest). The project, lead by Germany, aims to "stabilize energy systems with up to 100% RES to generate "RESERVEs" so that society can relax in the knowledge that it has a stable and sustainable energy supply" and features research into new energy system concepts. Romania is one of the two trial sites (focus on lab based frequency control for a 100% RES scenario);
- CROSSBOW (together with Transelectrica) will research cross-border management of RES and storage. Project just started (November 2017) and will run until October 2021.
- However: lack of proper understanding of what R&D is. (Ex: Transelectrica 2016 annual report lists under R&D activities - realization of market /commercial/policy analysis, technical performance optimization, or support services) → mislabeling as "R&D" activities that are not.