



Schweizerische Eidgenossenschaft
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Bundesamt für Energie BFE
Office fédéral de l'énergie OFEN
Ufficio federale dell'energia UFE
Swiss Federal Office of Energy SFOE

Swiss PV FIT Policy

From Pioneers to new Strategy of the Federal Council



SLN-Workshop, 30.6.2011; Urs Wolfer, BFE

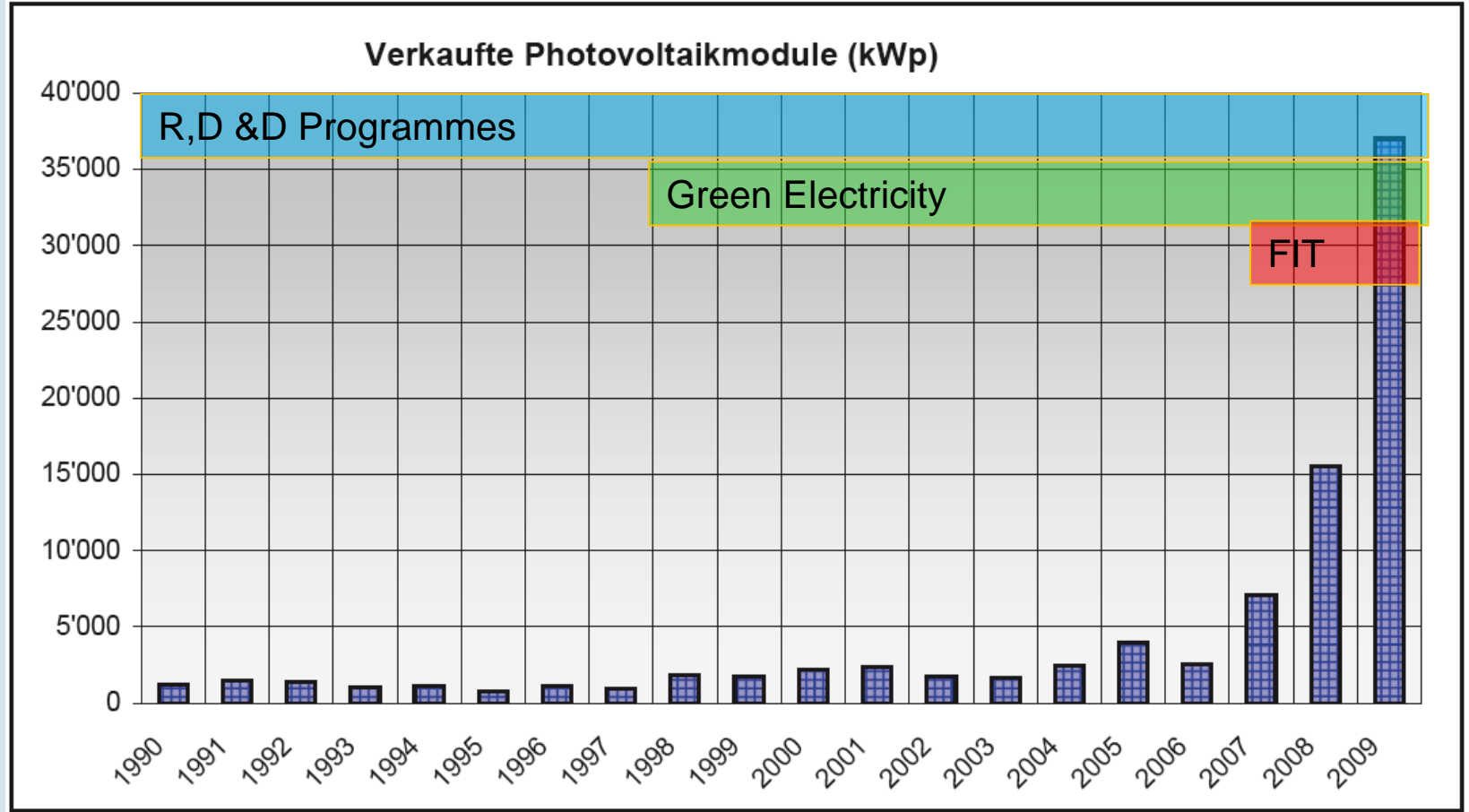


Content

- **Swiss PV Market**
- FIT Status
- FIT Outlook
- FIT Design
- Federal council's new Strategy



Swiss PV Market and Main Drivers





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FIT Status Planned Annual Production

Source	in operation	in construction	in detail planning	waiting list
Biomass	352'724 MWh	485'248 MWh	104'653 MWh	951'288 MWh
Geothermal			12'787 MWh	
PV	24'389 MWh	1'975 MWh	221 MWh	220'697 MWh
Hydro	360'182 MWh	68'505 MWh	1'048'332 MWh	1'031'150 MWh
Wind	49'361 MWh	1 MWh	1'315'326 MWh	2'023'445 MWh
Total:	786'657 MWh	555'730 MWh	2'468'534 MWh	4'239'369 MWh

Status: 4.4.2011

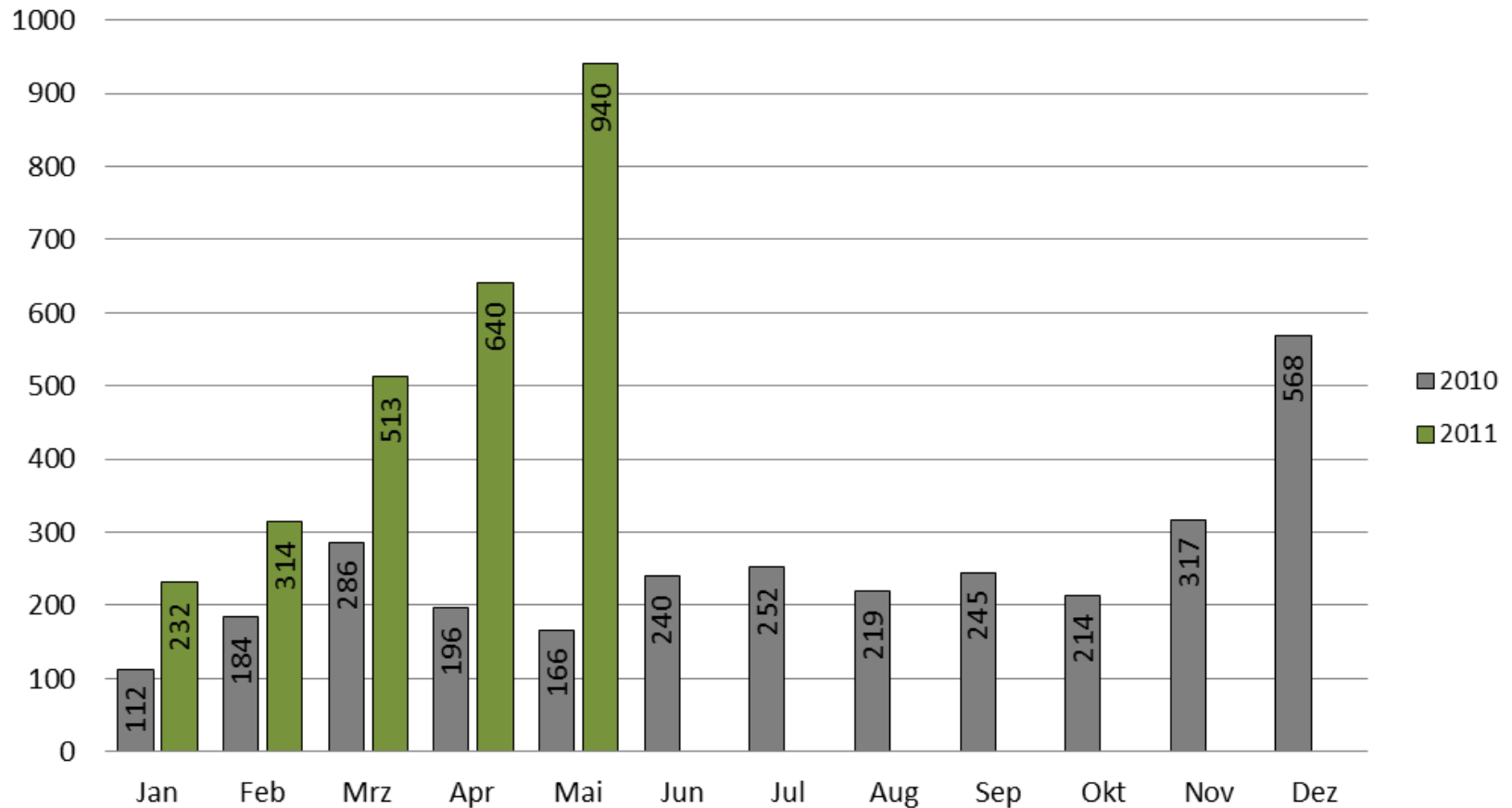
For information: AKW Mühleberg: ca. 3'000'000 MWh



FIT

Development of the waiting list after 1.7.2011

KEV: Anzahl Anmeldungen pro Monat





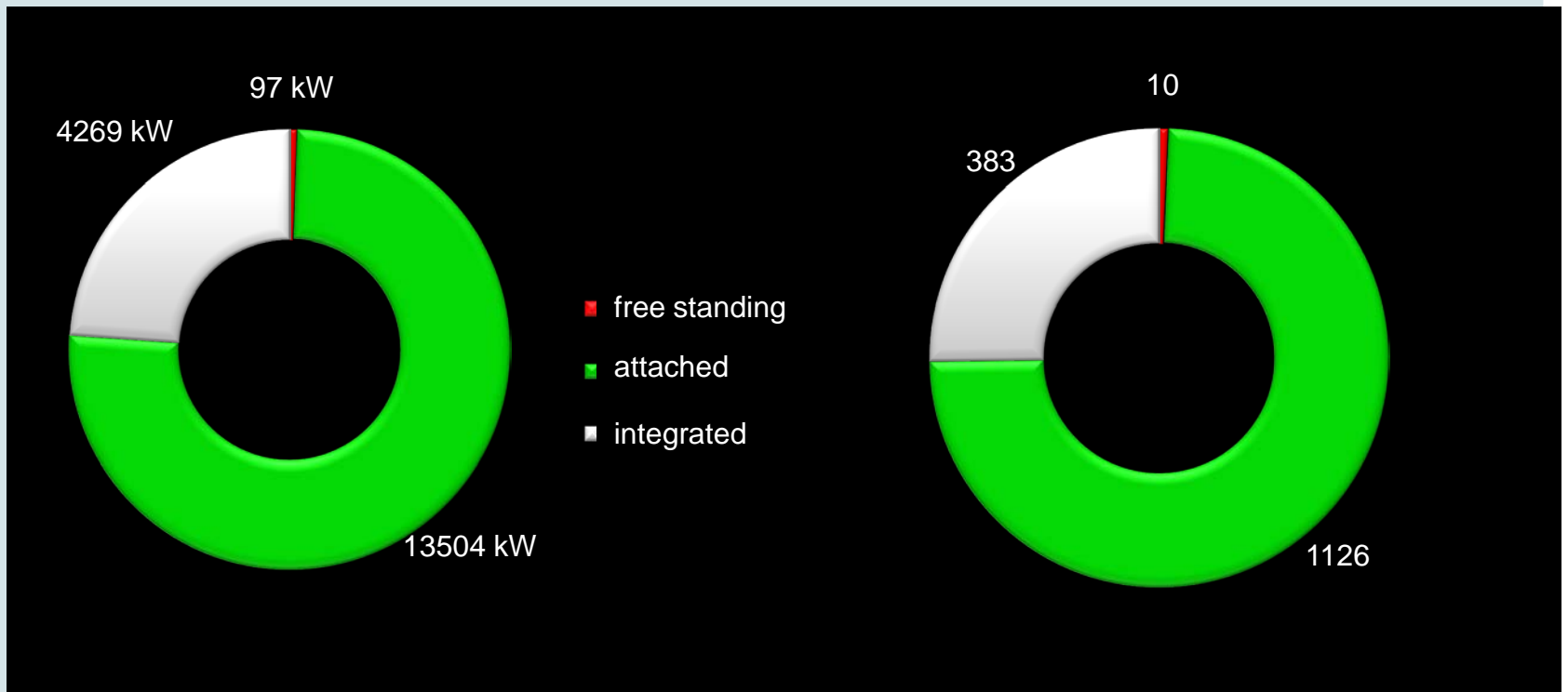
FIT (for PV) Categories and Tariffs

Anlagekategorie	Leistungsklasse	Vergütung (Rp./kWh)		
		Inbetriebnahme		
		bis 2009	2010	ab 2011
Freistehend	≤10 kW	65	53,3	42,7
	≤30 kW	54	44,3	39,3
	≤100 kW	51	41,8	34,3
	≤1000 kW	49	40,2	30,5
	>1000 kW	49	40,2	28,9
Angebaut	≤10 kW	75	61,5	48,3
	≤30 kW	65	53,3	46,7
	≤100 kW	62	50,8	42,2
	≤1000 kW	60	49,2	37,8
	>1000 kW	60	49,2	36,1
Integriert	≤10 kW	90	73,8	59,2
	≤30 kW	74	60,7	54,2
	≤100 kW	67	54,9	45,9
	≤1000 kW	62	50,8	41,5
	>1000 kW	62	50,8	39,1



Built PV-Plants (Stand 6.1.2010)

25% BIPV Plants!





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Outlook FIT (under actual Law) Conditions for liberating projects from the waiting list

- Already planned projects fails (runs out of schedule)
- Market Price EEX ist strongly increasing
- Eventual decisions of the Parliament



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Perspectives 2050 of the Federal Council

Potenzial	Technisch	Erwartet in 2050
		GWh
Wasserkraft (Ausbau) ¹⁾	12000 ¹⁾	10080 ¹⁾
Fossile WKK	20000-30000	13450
Neue erneuerbare Energien	-	23554
Photovoltaikanlagen	15000-18000	10415
Windenergieanlagen	n.a	4012
Biomasse (Holzgas)	Nicht verwendet	0
Geothermie	n.a.	4378
Biomasse (Holz)	1700	1139
Biogas	2300	1447
ARA	n.a.	407
KVA (50% EE-Anteil)	1675	1727
Deponiegas	n.a.	29

About 400MW/y

Grundlagen für die Energiestrategie des Bundesrates; Frühjahr 2011

Aktualisierung der Energieperspektiven 2035 (energiewirtschaftliche Modelle)

Zusammenfassung - Résumé - Riassunto



BIPV Production Potential

Solar electricity BIPV production potential	Potential production of solar electricity (TWh/y) on roofs	Potential production of solar electricity (TWh/y) on façades	Potential production of solar electricity (TWh/y) on building envelope	Actual electricity consumption (in TWh)
Australia	68.176	15.881	84.057	182.24
Austria	15.197	3.528	18.725	53.93
Canada	118.708	33.054	151.762	495.31
Denmark	8.710	2.155	10.865	34.43
Finland	11.763	3.063	14.827	76.51
Germany	128.296	31.745	160.040	531.64
Italy	103.077	23.827	126.904	282.01
Japan	117.416	29.456	146.872	1 012.94
Netherlands	25.677	6.210	31.887	99.06
Spain	70.689	15.784	86.473	180.17
Sweden	21.177	5.515	26.692	137.12
Switzerland	15.044	3.367	18.410	53.17



Perspectives 2050 of the Federal Council and next steps

Based on this perspectives the federal council will:

- Not replace the nuclear power plants and
- Invest into more renewables and energy savings

- The National Council has already adopted this general direction

- The States Council decides in autumn

- The federal council will create a first draft with the planned actions

- The Swiss Parliament will debate in 2013

- > First actions will not be earlier than 2014



Thanks for your attention!

