PPP Days Day 4 I Special Session



Building administrative capacity for viable PPP streetlighting projects - approach and pilots

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- 1. ÖPP Deutschland AG
- 2. Street-lighting in Germany
- Development of a PPP model for street-lighting projects
- 4. Steps to implement PPP street-lighting projects



Foundation of Partnerschaften Deutschland

Milestones:

Decision to launch the company
 July 2007

Budget approved April 2008

ÖPP Deutschland AG registered December 2008

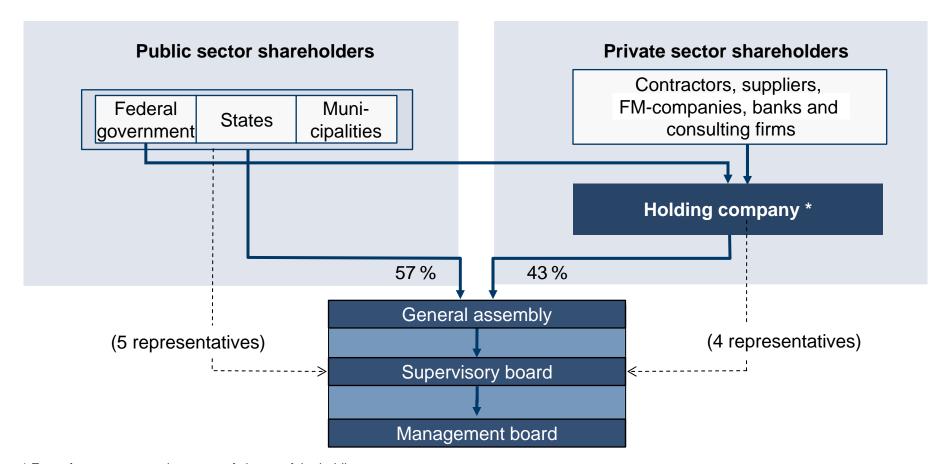
Operational March 2009

Our mission:

- Enhance PPP in Germany
- Neutral, independent and reliable consulting services
- Bundling of public and private sectors know-how
- Maximize efficiency gains for the public sector



Structure of ÖPP Deutschland AG



^{*} Every four years new placement of shares of the holding company

Business fields



Advisory

Consulting public authorities on Federal, State and Municipal level on

- structuring PPP projects, preparation and supporting tendering processes
- economic analysis, cash-flow modelling and project management

PPP Framework conditions

Framework conditions

improving framework conditions and standards

Know-how transfer

- know-how transfer between all involved public and private parties
- development of PPP expertise in public authorities

Market development

- •identifying new potential PPP sectors and structuring new PPP models
- supporting policy-makers and administrations to develop these sectors

Communication

Information about PPP

- via internet, political discourse
- on events
- via specialised press



Advisory activities









New strategic options for the public sector due to work on PPP framework conditions

Advisory

Consulting public authorities

- structuring PPP projects, pr
- economic analysis, cash-flo

PPP framework conditions

Framework conditions

improving framework condit

Know-how transfer

- know-how transfer between
- development of PPP expertise

Market developments

- identifying new potential PP
- supporting policy-makers ar

Framework conditions / standardization

- Standard financial model for economic studies
- Benchmarking for health projects
- Payment mechanisms with incentives and controlling tools
- Success factors for PPP in IT & services

Know-how transfer

- Impact of the financial crisis on PPP real estate projects in Germany
- Funding law
- Transparency
- Workshops with municipalities on street-lighting
- PPP for SME

tise in public authorities

Market developments

- PPP street-lighting tender package
- PPP traffic-signaling tender package
- PPP for kindergartens
- PPP for sports-facilities
- State and municipal road projects





Energy saving potentials for street-lighting projects

Germany

- About 9% of produced energy in Germany is used for lighting
- Street-lighting:
 - > About 9 million street-lights installed
 - > Energy consumption of about 4 billion kWh per year
 - > Energy saving potential up to 80% in average about 45%
- The average 45% saving potential equals
 - > 1.8 billion kWh per year which is more than 300 million EUR year
 - > 1.035.000 t CO₂ per year (assumption 575 g CO₂ /kWh for existing power-mix)
- Further saving potentials from operation and maintenance procedures

Europe

- About 56 million street-lights
- About 18 million on a 1930's standard



Street-lighting in Germany

- Great investment needs
- High saving potentials in energy and CO2-emission (in average about 35 % in some cases up to 80 % of energy consumptions)
- Lots of old street-lighting facilities (30% of about 9 Mio. street-lighting facilities are from the 1970's or older)
- There are already projects similar to PPP (e.g. Bremen, Gera, Hagen)
 - > Main differences are property rights of assets, risk-transfer, payment-mechanisms, contract period and the transfer of energy supply
- In September 2010 a PPP tender package was published by OPP Deutschland AG for street-lighting including all necessary tender documents for a municipal street-lighting project (lighting-concept, installations, finance, operation, maintenance, energy-supply over a period of 15-20 years)



Development of the Street-lighting procurement package

Phase I

Analysis of framework conditions

- Framework conditions
- Funding schemes
- Analysis of different tendering options
- Stakeholder analysis

Phase II

Development of PPP-model

- Economic, legal, technical keyelements
- Transfer of services, risk allocation
- Definition of interfaces
- Key-elements of service-qualities, payment-mechanisms
- Contractual and organizational model
- Description of tendering procedures

Phase II Development and publication of procurement package

- Know-how transfer with public and private sector stakeholders
- Development of the tender package
- Report and other documentation of the results
- Presentation and publication of all information and the procurement package

Integration of external legal and technical advisors

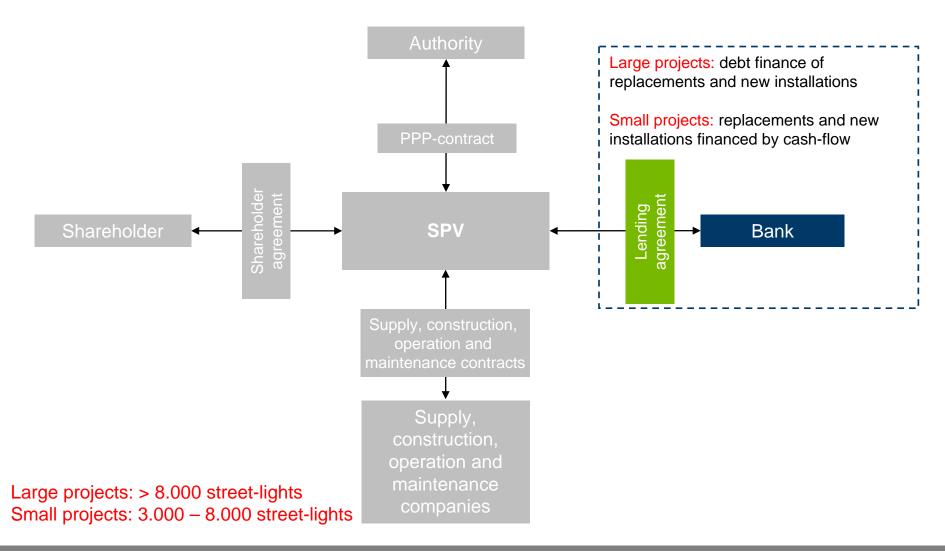


Schedule

•	Contract signed with Ministries	12/2009
٠	Kick-off phase I	01/2010
٠	Results of phase I presented to the ministries	04/2010
•	Tendering external advisory services	04/2010
•	Kick-off workshop with external advisors	05/2010
•	3 half-day workshops with external advisors	
	> Model workshop on key elements of the PPP-model	
	> Small projects and status of the documents	
	> Final workshop on the procurement package	
•	Final presentation to the ministries	08/2010
•	Publication of the procurement package	09/2010



PPP-model for street-lighing in Germany



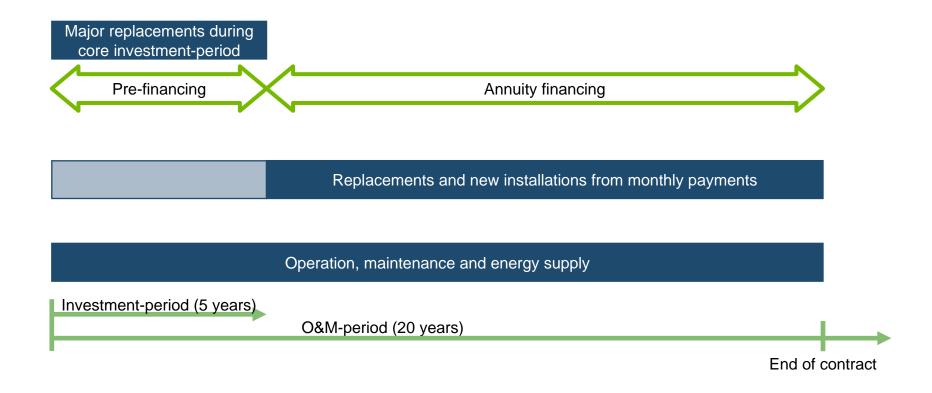


Key elements of the PPP street-lighting model

- Contract period of 20 years (15 years for small projects)
- 5 years core investment-period for large projects (no investment-period for small projects)
- For small projects replacements are financed from annual payments by the authority
- Operation and maintenance of facilities
- Energy supply
- Ownership of existing facilities remain with the municipality
- Transfer of ownership of new assets to municipality once they are operational
- Need for documentation of existing facilities, technologies, age and their status
- Output-based specification



PPP street-lighting model for large projects (> 8.000 street-lights)





Risk transfer of PPP street-lighting model

Municipality

- Price risks of energy, personal, material
- Changes in tax-regulation
- Change of legal and technical standards
- Vandalism above a fixed annual amount
- Costs of accidents above a fixed annual amount

Private partner

- Energy consumption-risks
- Planning risks
- Effects of delay and cost overruns
- Financial risks
- Availability of facilities
- Operation and maintenance risks
- Vandalism up to a fixed annual amount
- Costs of accidents up to a fixed annual amount



Procurement package for street-lighting

- The following documents are included in the procurement package:
 - > Process documents for
 - Project preparation
 - Pre-qualification
 - Invitation to tender
 - Scoring matrices for PQ and bids
 - All standard letters
 - > Tender documents for
 - Pre qualification (Memo, standard form for application, scoring-matrices, ...)
 - Bid preparation (Memo, standard contract, price-sheets, output-specification, standards catalogue, ...)

Procurement package for large projects



Nr.	Bezeichnung des Dokuments									
Vorbereitung Vergabeverfahren										
V1 (g)	Anforderungen Bestandsdokumentation									
	newettbewerb									
	Auftragsbekanntmachung									
T 2 (g)										
	Teilnehmerformular									
	Formblätter Auswertung Teilnahmeanträge									
T 5 (g)										
Angebotsaufforderung										
	Angebotsaufforderung									
A 2 (g)	Eckpunktepapier									
A 3 (g)	Bieterinformation									
A 4 (g)	Beleuchtungsvertrag Malusregelungen									
A 4 (g)	Beleuchtungsvertrag									
A 5 (g)	Formblatt Bieteranmerkungen Wirtschaftl. Dokumente									
A 6 (g)	Formblatt Bieteranmerkungen Rechtl. Dokumente									
A 7 (g)	Formblatt Bieteranmerkungen Techn. Dokumente									
	Angebotsformular									
A 8 (g)	Leitsätze für die Preisermittlung									
	Formular Erneuerungskosten									
	Formular Betriebskosten									
	Formular Energiekosten									
	Formular Instandhaltungskosten									
	Formular Finanzierung									
	Formular Plan Konto Erneuerung und Instandhaltung									
	Formular Neubau Rückbau Umbau Änderung									
	Vertragserfüllungsbürgschaft									
10/	Technische Beschreibung Anlagenbestand									
	Outputspezifikationen Bauliche Standards									
	Outputspezifikationen Betriebsmanagement									
	Outputspezifikationen Instandhaltung									
	Outputspezifikationen Leuchtenkatalog									
	Bewertungsmatrix Angebote									
	Formblatt Angebotsauswertung									
	Absageschreiben									
A 22 (g)	Zuschlagsschreiben inkl. Anschreiben									



Success factors for PPP street-lighting

- Project size (investment volume and number of lights)
- Average age of equipment
- Specific energy consumptions
- Political willingness for PPP-delivery
- Positive experiences of the municipality with PPP e.g. with schools
- Role of Stadtwerke or current contractor
- Access to funding schemes
- Possible bundling with other municipalities or services (traffic-signaling, telematic-systems, parking-systems, IT-systems)
- Defined energy- or CO₂-saving-targets of the municipality



Steps to implement PPP street-lighting projects

	2010				2011	up to now	
	September	October	November	December	January	February	
Documents Report with data CD (tendering package), presentation, fact-sheet							
Marketing concept Press announcements, Meetings & interviews with press & media, PPP street-lighting web page, conferences							
Workshops / road-show					Workshops with municipalities (so far 4 National workshops, workshops in Warsaw and Berlin (EPEC))		
Advisory acitivities e.g. support tender preparation and tendering process as external advisor of municipalities					Early stage advisory for several municipalities and street-lighting pilot-projects		



Fact-sheet, report and CD with procurement package



www.partnerschaften-deutschland.de/verdingungsunterlagen-beleuchtung



Thank you for your attention!

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