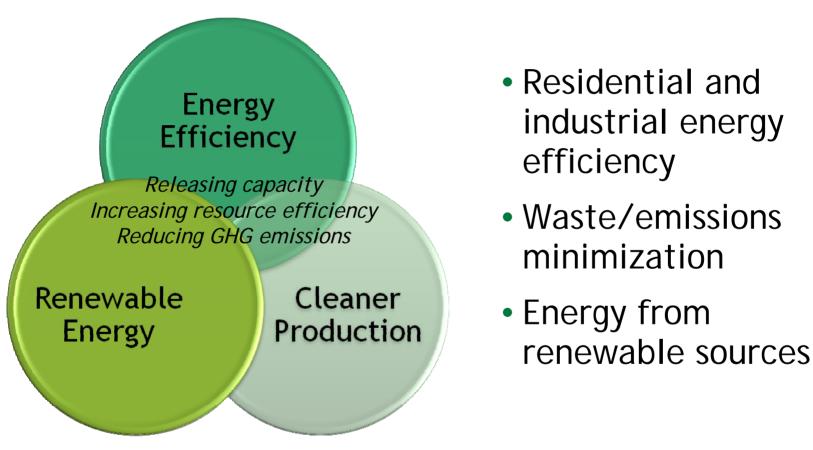


# Sustainable Energy Finance Where is the Business Opportunity for Fls

Russia Sustainable Energy Finance Program 2010

For Informational Purposes Only

# Sustainable Energy Finance Overview



**Carbon Finance:** IFC looks at integration of carbon finance opportunities into these product lines

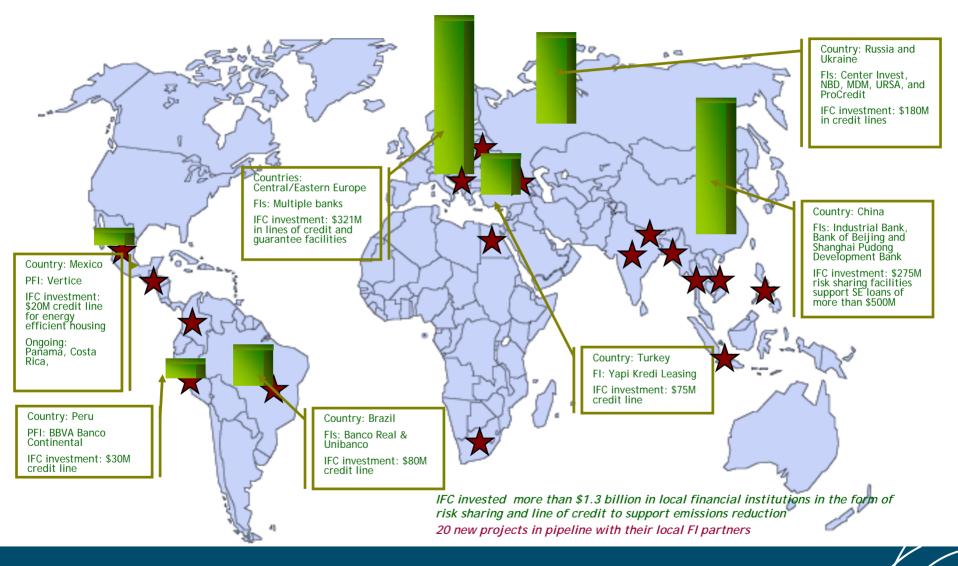


# Sustainable Energy Finance Overview

	Enabling Environment	<ul> <li>Regulatory &amp; Policy reform</li> <li>Awareness building</li> </ul>
	Market Players	<ul> <li>Capacity Building</li> <li>Work with project developers</li> <li>Awareness building</li> </ul>
	Financial Institutions	<ul> <li>Product Development &amp; Strategy</li> <li>Front office training/support</li> <li>Marketing</li> </ul>



# IFC Sustainable Energy Investments via Fis



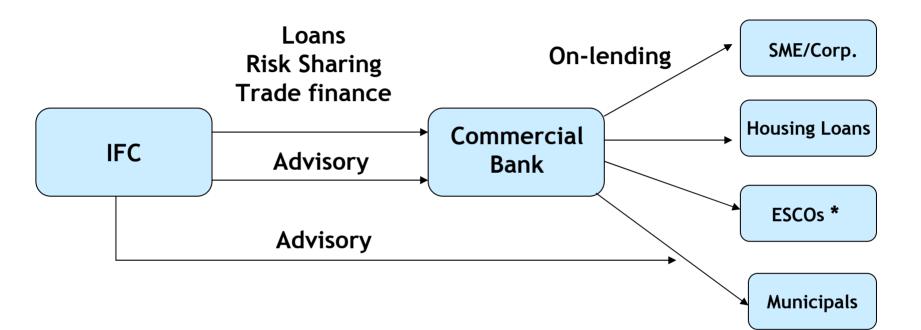


# **Russian SEF Program**

- Nine partner Fls:
  - Investment + AS: Center Invest (\$4M), NBD (\$8M), URSA/UVTB (\$53M), MDM (\$85)
  - AS only: TatfondBank, Absolut Bank, Independent Leasing, Prime Finance Bank, Agropromkredit Bank
- 154 projects / \$150M worth financed:
  - \$30M of IFC funds
  - \$120M of non-IFC funds
  - Annual energy savings over \$37M
  - Greenhouse gas emission down by **415,000 tCO**<sup>2</sup> per year



# Wholesaling Through FIs: How do we work?



### \*ESCO - Energy Service Companies





# **Key Benefits for Financial Institutions**

# • Expanded market share through new business line:

- Innovative product/first mover advantage
- Sell on value to customer, not pricing
- Monetize existing client base, attract quality new clients
- New marketing channels through vendor partnerships

# Improved risk profile of portfolio:

- Energy cost savings as a part of cash-flow
- IFC risk sharing products

# • Positive social and environmental impacts:

Enhanced brand reputation, PR opportunities



# AS Toolkit for Sustainable Energy Finance

## • Integration of the SEF model:

Product manual, assessment toolkit: energy efficiency calculator and user guide

- Staff training
- Outsourcing of technical expertise
- Sales and Marketing activities:

Standard presentations, brochures, promo-campaigns, seminars for the clients, etc.

• Transaction support of the pilot deals/reporting

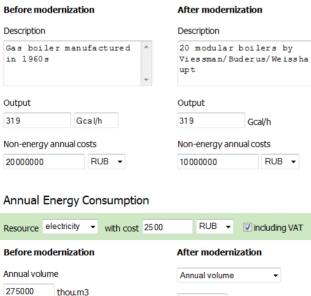


# **Energy Efficiency Calculator**

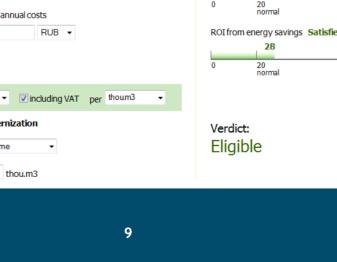


#### Equipment

- Production (used for production purposes, i.e. oven, press, grinder, etc.)
- Generic energy (auxiliary equipment such as boilers, lighting, ventilation, etc.)
- Co-generation (projects involving CHP equipment)



20 00 00



Simple payback	3,31years		
Annual annuity payment	6 778 580	EUR	•
Energy savings debt service contribution	57%		

#### Environmental Indicators

Annual GHG reductions37 501t CO 2 equiv./yearLifetime GHG reductions562 508t CO 2 equiv./yearInvestment / Ton GHG reduce33USD / t CO 2 equiv.

#### **Energy Saving Indicators**

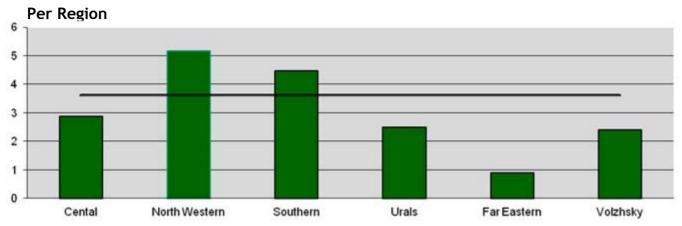
Annual energy savings	210 343		MWh		•
Investment / Unit energy saved	6USD	М	Wh	•	

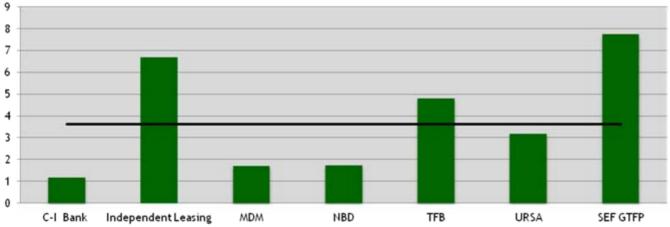
#### **Eligibility Criteria Indicators**

#### Unit energy savings Satisfies



# Annual avoidance of GHG - 3 tons per \$1 000 of IFC investments

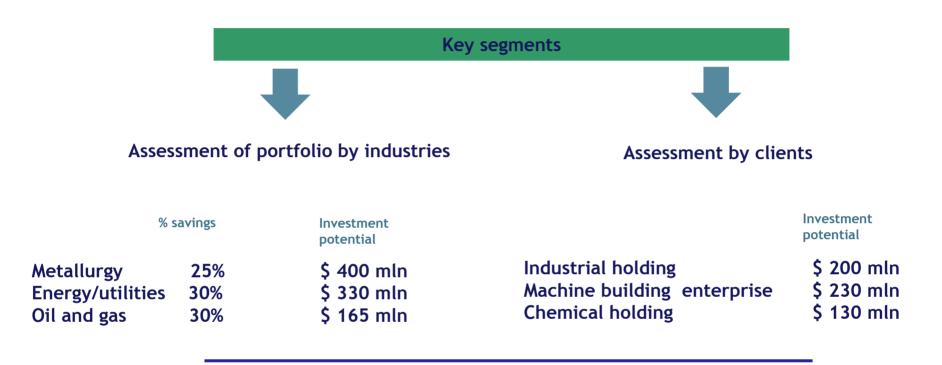




#### Per Financial Institution



# Potential assessment, large Russian bank

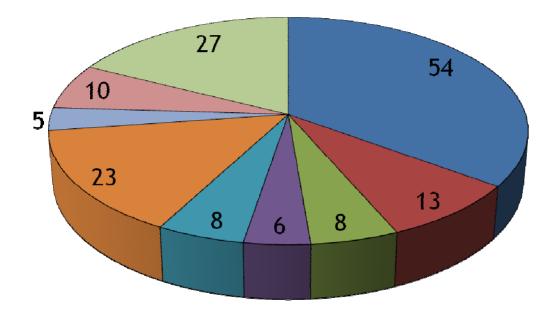


### TOTAL POTENTIAL : \$1.45 BLN GHG AVOIDANCE : 2+ mln t CO<sub>2</sub> eq / a

Sources: Центральный банк, исследование IFC и Всемирного банка (2008), Исследование IFC (2007), годовые отчеты банка



# EE projects can be found in all sectors



Food
Energy and Utilities
Construction
Chemical and Plastic
Light
Metals and Machinery
Glass
Wood Processing
Services

The most popular in Russian portfolio are: Food, Services, Metals and Machinery and Wood Processing



# Russian project example: process equipment

- New automatic chocolate line at a confectionary factory
- Unit energy costs reduced by 33%
- Dramatically improved product quality
- Huge increase in output capacity
- Investment: \$233k
- Payback: 2 years





# Russian project example: renewable energy

- Boiler fueled by sunflower seed husks
- Annual CO2 reduction of 10,600 tons
  Investment: \$1.1 m
  Savings: 660,000 m3 of gas per month (\$39k)





### Contacts

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