# Conference on plastics in the marine environment

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Icelandic system for fishing nets





# **Background information**

#### IRF - Icelandic Recycling Fund (Úrvinnslusjóður)

- Institution with goal to increase recycling and recovery
- Operation funded by recycling fee imposed upon imported goods or local production
- Industry has majority board position at IRF (four out of six b.m.)
- Provision in legislation for industry to make an agreement with IRF to insure collection and recycling of fishing nets

#### • LÍÚ – Federation of Icelandic Fishing Vessel Owner

 Represent majority of Icelandic fishing vessel owners in order to safeguard their mutual interests. Fishing generates 35-40% of Iceland GDP

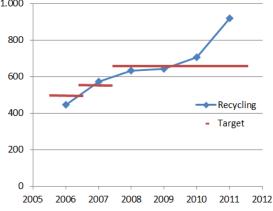
#### Agreement between IRF and LÍÚ, since August 2005

- LÍÚ is responsible for the operation of a collection station for fishing nets
- Fishing nets are exempted from recycling fee



# **Agreement made August 2005**

- LÍÚ operates a collection station and is responsible for recovery for all waste fishing nets
  - Waste fishing nets should fulfill certain requirements
  - Deckhand and other who are working on the vessel separate nets from wire and ropes. Transportation to recycler paid by owner
  - Owner of the fishing nets can send to recycler without using the collection station
- Recycling targets for nets
  - **2006 45%**
  - 2007 50%
  - 2008 60%
  - Total plastic waste est. 1.100 T that can be recycled from 1.700 T.
- LÍÚ reports once a year to IRF on results



# Results from study on quantity of fishing gear waste [kg]

Total qty p/year		Material											
Tegnund	Veiðarfæri	Led	EVA	Rubber	PA	PA+PE	PE	PE+PP	PE+steel	PP+steel	PS	Steel	Grand Tota
Botton trawl	Lítil botnvarpa (small)			92.747		51	10.642	5.595	2.910		9.051	12.990	133.987
	Stór botnvarpa (large)			477.508		176	45.885	22.829	16.131		34.580	44.992	642.100
Botton trawl Sum				570.255		226	56.527	28.424	19.041		43.631	57.982	776.087
Purse seine	Dragnót (Danish)			6.300			45.696	7.875	2.205		2.310	185.186	249.572
Purse seine Sum				6.300			45.696	7.875	2.205		2.310	185.186	249.572
Pelagic trawl	Kolmuna flotvarpa				38.325	42.000	4.725					20.790	105.840
	Loðnu og síldar flotvarpa				24.638	27.000	3.038					13.365	68.040
	Karfa flotvarpa				317	2.034	923					2.257	5.531
Pelacig trawl Sum					63.279	71.034	8.686					36.412	179.411
Handlines	Handfæri	7.280					378					617	8.275
Handlines Sum		7.280					378					617	8.275
Line	Lítil lína (small)						115.456					19.122	134.578
	Stór lína (large)						35.136					1.908	37.044
Line Sum							150.592					21.030	171.622
Net	Grálúðunet (gr.halibut)	755			226		675	3.040					4.696
	Grásleppunet (lumpfish)	6.079	1.835		13.794		741	4.465					26.913
	Kolanet (plaice)	74	7		59		1	62					204
	Silunganet (trout)	0	0		0		0	0					0
	Skötuselsnet (monkfish)	338	203		130		77	328					1.075
	Ufsanet (pollock)	4.520	2.712		16.855		1.033	4.391					29.512
	Ýsunet (haddoc)	2.193	1.316		8.178		501	2.131					14.319
	Þorskanet (cod)	60.354	6.035		197.875		13.795	78.891					356.951
Net Sum		74.313	12.108		237.117		16.824	93.308					433.671
Seine	Djúpnót (deep)	3.991	3.330		186.282		777	43					194.423
	Grunnnót (shallow)	7.849	6.593		519.750		1.450	88					535.730
	Síldarnót (herring)	2.105	1.753		58.579		398	23					62.858
Seine Sum		13.945	11.675		764.611		2.625	154					793.012
Shrimp shed	Rækjuvarpa			50.207		6.737	36.677	9.096	19.443	3.226	30.115	35.052	190.553
Shrimp shed Sum		_		50.207		6.737	36.677	9.096	19.443	3.226	30.115	35.052	190.553
Grand Total		95.538	23.784	626.762	1.065.007	77.998	318.005	138.857	40.689	3.226	76.056	336.281	2.802.204



# Information on sorting of fishing nets



#### Leiðbeiningar um flokkun veiðarfæraúrgangs

úr gerviefnum til endurvinnslu eða förgunar



Miklivægt er að állt efni sem fer til emdurvinnsúu sé flokkað eltir tegundum, allir aðskutahlutir s.s. liftænn úrgangur, vírar, keðjur og lásar sé fjarlægt. Binda hverja tegund fyrir sig í bagga eða setja í "stórsekk". Allar hvekari upplýsingar veittar á skriftstoðu Lift Borgartúni 35, Keykjavík, eða í simum 591 0304 og 824 2304.



**Fishing** 

**Ropes** 

line

# **Challenges**

- Top management commitment
- Fishing industry participation

Use company know how in handling of fishing nets

Savings in preparation and transport of waste fishing nets

Estimate of amount of waste and reasonable targets

Lot of ground work finding out how to estimate the weight of fishing gear for different method of fishing: nets, ropes, wires, rubber, plastic types etc..

Today the recovery of fishing net is estimated 85% most of it goes to recycling, both net and wires. Ropes are more difficult (blended).

- Cherry picking (collection from all of Iceland)
- Domestic recycling capacity and know how
- Product development fishing nets

